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VOLUME 31

해 양 조 사 연 보

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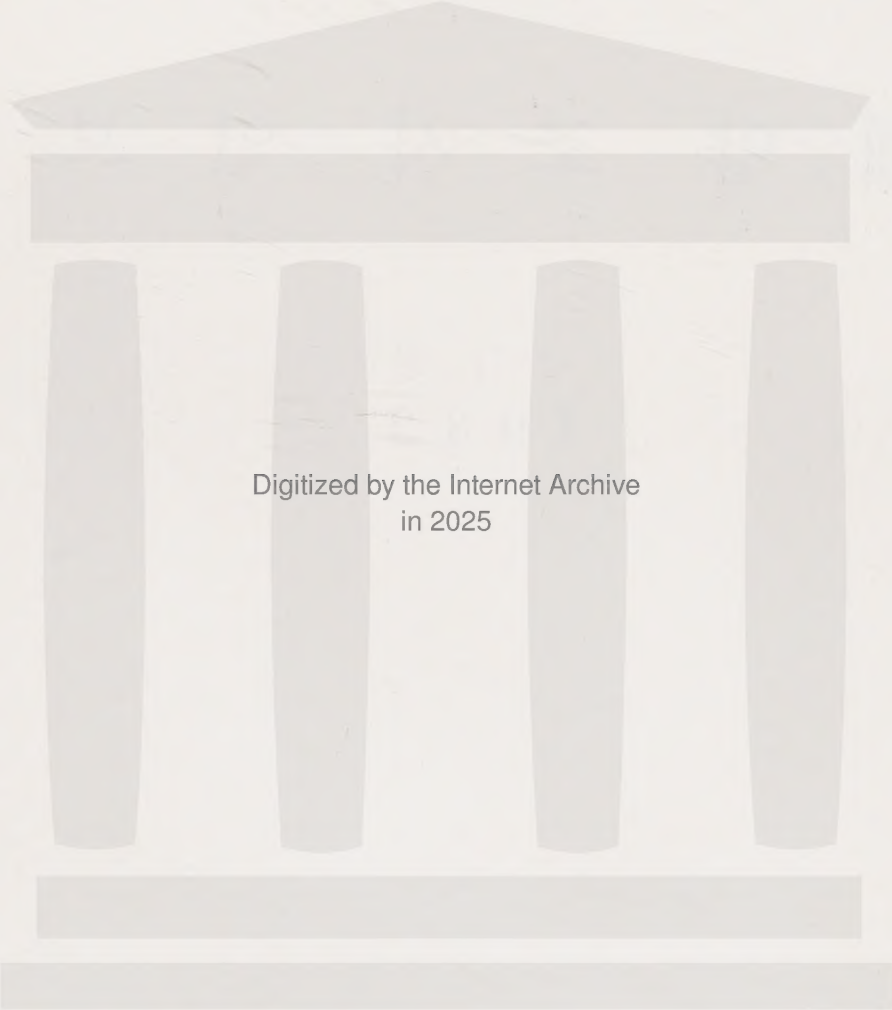
국립수산진흥원
Fisheries Research and Development Agency
Busan, Korea
December, 1983

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국민 교육 헌장

우리는 민족 중흥의 역사적 사명을 띠고 이 땅에 태어났다. 조상의 빛난 얼을 오늘에 되살려, 안으로 자주 독립의 자세를 확립하고, 밖으로 인류 공영에 이바지할 때다. 이에, 우리의 나아갈 바를 밝혀 교육의 지표로 삼는다.

성실한 마음과 튼튼한 몸으로, 학문과 기술을 배우고 익히며, 타고난 저마다의 소질을 계발하고, 우리의 처지를 약진의 발판으로 삼아, 창조의 힘과 개혁의 정신을 기른다. 공익과 질서를 앞세우며 능력과 실질을 숭상하고, 경애와 신의에 뿌리박은 상부 상조의 전통을 이어받아, 명랑하고 따뜻한 협동 정신을 북돋운다. 우리의 창의와 협력을 바탕으로 나라가 발전하며, 나라의 융성이 나의 발전의 근본임을 깨달아, 자유와 권리에 따르는 책임과 의무를 다하며, 스스로 국가 건설에 참여하고 봉사하는 국민 정신을 드높인다.

반공 민주 정신에 투철한 애국 애족이 우리의 삶의 길이이며, 자유 세계의 이상을 실현하는 기반이다. 길이 후손에 물려줄 영광된 통일 조국의 앞날을 내다보며, 신념과 긍지를 지닌 근면한 국민으로서, 민족의 슬기를 모아 줄기찬 노력으로, 새 역사를 창조하자.

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資 料 및 方 法

本 年報에 收錄된 資料는 1982 年 當院에서 調査한 沿岸定地海洋觀測資料, 定線海洋觀測資料와 浮游生物調査資料를 다음과 같이 綜合하였다.

第一編： 沿岸定地 海洋觀測成績

1982 年 韓國近海의 41 個 沿岸定地觀測點에서 每日 1 回 (10 時) 水溫, 氣溫 및 氣象調査를 實施한 資料中에서 表面 水溫과 氣溫의 每旬別 平均值를 算出하여 收錄하였다.

第二編： 定線海洋觀測成績

1982 年 韓國近海의 定線 21 個線 (東海： 8 個線, 南海： 7 個線, 西海： 6 個線) 에서 隔月로 實施한 定線海洋觀測調査資料를 電子計算機 (Qnix 8000) 로서 觀測資料의 標準化處理 및 力學計算을 實施 收錄하였다.

第三編： 韓日共同海洋觀測成績

“ 第二編 ” 의 定線 海洋觀測點과 重複되지 않는 12 個 定點에 對한 資料를 收錄하였으며 資料의 處理는 “ 第二編 ” 과 同一하다.

第四編：浮游生物調査成績

定線海洋觀測時 norpac net (網目 0.33 mm)를 使用하여 定量 採集하였으며 採集 水層은 東海側이 100 m, 西海側은 50 m, 南海側은 底層에서 表面까지 0.5 ~ 1 m/sec.의 速度로써 垂直 採集하여 約 5 %의 中性 Formalin으로 固定하였다.

採集된 浮游生物 試料은 實驗室에서 大形인 腔腸類, 甲殼類 및 被囊類等을 除去한 후 容積測定法에 依한 沈澱量과 重量測定法에 依한 濕重量을 測定하였으며, Copepoda, Chaetognatha, Amphipoda, Euphausiacea 등을 計數表示하였다.

끝으로 定線海洋觀測資料의 標準化 處理 및 力學計算에 協助하여 주신 當院 電算室 韓壽元氏에게 謝意를 表합니다.

DATA AND METHOD

The annual report contains the data of the coastal oceanographic, sectional oceanographic observations and plankton in 1982, they are follows:

PART 1 : COASTAL OCEANOGRAPHIC DATA

The Daily observations were carried out for surface water temperature, air temperature and meteorological factors at 41 stations in the Korean waters. Ten-day average surface temperature and air temperature were presented by sum of the daily data.

PART 2 : SECTIONAL OCEANOGRAPHIC DATA

Sectional oceanographic observations were carried out by Nansen casts 6 times a year on 21 lines in the Korean waters.

The water temperature, salinity, oxygen and meteorological factors were collected in the February, April, June, August, October and December 1982.

The data were processed by micro computer (Qnix 8000) of the Fisheries Research and Development Agency.

PART 3 : KOREAN-JAPAN COOPERATIVE OCEANOGRAPHIC DATA

The data were collected from 12 stations that were not overlapping with sectional oceanographic stations in PART 2, and data processing were as above method (PART 2).

PART 4 : PLANKTON DATA

Plankton samples were collected by vertical haul with norpac net (0.33 mm mesh size). In general, sampling depth is from 100 m in the East Sea, 50 m in the West Sea, and bottom in the South Sea of Korea to the surface and the hauling speed is 0.5 ~ 1 m/sec.

The collecting samples were immediately preserved in about 5 % neutral formalin.

For quantitative examination of plankton in the laboratory, the settling volume and the weight measurements were carried out after removing the large size planktons (>2cm), such as Hydromedusae, Scyphomedusae and Doliolum.

The number of Copepoda, Chaetognatha, Amphipoda and Euphausiacea in each samples are given in these data.

凡 例

○ 定線海洋觀測資料

表 題 (表面 環境 情報)

位 置 : 韓國 定線海洋觀測點 番號

緯 度 : 北緯 度數와 分, 1/10 分 表示

$36-30.5\text{ N} \rightarrow 36^{\circ} 30' 30''\text{ N}$

經 度 : 東經 度數와 分, 1/10 分 表示

日 字 : 大韓民國 標準時에 의거한 年, 月, 日

時 刻 : 東經 135° 의 子午線을 基準한 大韓民國 標準時

水 深 : 底層까지의 총깊이 (m 表示)

水 色 : Forel 水色標準液의 水色番號 (1-11)

透明度 : 直徑 30 cm의 白色 透明度板에 의한 測定 (m 表示)

波 浪 : 方向은 16 方位 (磁針方位)

階級은 10 階級法 (0~9) 으로 表示

너 울 : 方向은 波浪과 同一, 階級은 4 階級法 (0~3) 으로 表示

바 람 : 方向은 16 方位 (磁針方位)

階級은 Beaufort 風力階級으로 表示

氣 壓 : Aneroid 氣壓計에 의해 mb 로 表示

氣 溫 : 乾球溫度를 $^{\circ}\text{C}$ 로 表示

天 氣 : 天氣는 現在狀態를 아래와 같이 表示

快晴(B) : 雲量 0 ~ 2, 개입 (BC) : 雲量 3 ~ 7, 흐림 (C) : 雲量
8 ~ 10, 비 (R), 안개 (F), 눈 (S)

구 름 : 雲形은 10 種雲形法으로 觀測

雲量은 天空의 10 等分法에 依하여 目測

觀 測 (表面下 觀測)

水 深 : 資料 採集 水深 (m)

水 溫 : 轉倒溫度計로 測定하여 1/100 °C 까지 表示

鹽 分 : 電氣傳導度 鹽分計로 測定하고 千分率 (‰) 로 表示

酸 素 : 윈클러方法의 나카이 (中井) 改良方法으로 測定하고 ml/l 로
表示

補 插 法

水 深 : 標準層의 水深 (m)

水溫, 鹽分, 酸素 : 觀測資料를 標準層에 一致

計 算

密 度 : g/l 로 表示

D-T : Thermosteric anomaly $10^{-5} \text{ cm}^3/\text{g}$

SVA : 現場比容 anomaly $10^{-5} \text{ cm}^3/\text{g}$

D-DY : 力學深度 anomaly

EXPLANATION

SERIAL OCEANOGRAPHIC STATION DATA

Heading(Surface environmental information)

STATION	:	Ship station number given by numeric arabian numbers as assigned by the originator.
LATITUDE	:	Given in degrees, minutes and tenths of minutes with hemisphere indicated by N.
LONGITUDE	:	Given in degrees, minutes and tenths of minutes with hemisphere indicated by E.
DATE	:	Given in month and day as determined by KST.
TIME	:	Time of the beginning of observations given in hour and minute by KST referred to the meridian of 135° E.
DEPTH	:	Depth to bottom given in whole meters.
COLOR	:	Water color given according to Forel scale (1 ~ 11).
TRANS	:	Transparency given in whole meters as determined by Secchi disc.
WAVE DIR/A	:	Direction of waves given in 16 point scale of the compass bearing, from which dominant waves are coming, and sea state (A) according to WMO code 3700 (Scale 0 ~ 9).
SWELL DIR/A	:	Direction of swell given in 16 point scale of the compass bearing, from which dominant waves are coming, and sea state (A) according to scale 0 ~ 3.
WIND DIR/A	:	Direction of wind given in 16 point scale of the compass bearing, from which wind is blowing, and wind force (F) in Beaufort scale.
BARO	:	Barometric pressure given in millibars.
AIR TEMP DRY	:	Dry-bulb temperature given in degrees celsius.

WEATHER : Recorded in present weather: the abbreviations and the cloud cover are as follows;
 B: 0~2 , BC: 3~7, C: 8~10,
 R: Rain, F: Fog, S: Snow.

CLOUD T : Cloud type recorded in ten type of the cloud.
 A : Cloud amount recorded in tenths of whole sky covered.

Observed (Subsurface observations)

DEPTH : Depth of sample given in whole meters.
 TEMP : Temperature given in degrees celsius.
 SAL : Salinity given in parts per thousand as determined by the inductive salinometer.
 O₂ : Dissolved Oxygen given in milliliters per liter as determined by the Nakai modification of the Winkler method.

Interpolated

DEPTH : Standard depths (IAPSO equivalent) given in whole meters.
 TEMP, SAL, O₂ : Corresponding to the explanation of observed data.

Calculated

SIGMA-T : Given in grams per liter.
 D-T : Thermosteric anomaly (D-T) given in 10^{-5} cm/g
 SVA : Specific volume anomaly (SVA) given in 10^{-5} cm/g
 D-DY : Dynamic depth anomaly (D-DY) given in dynamic meters.

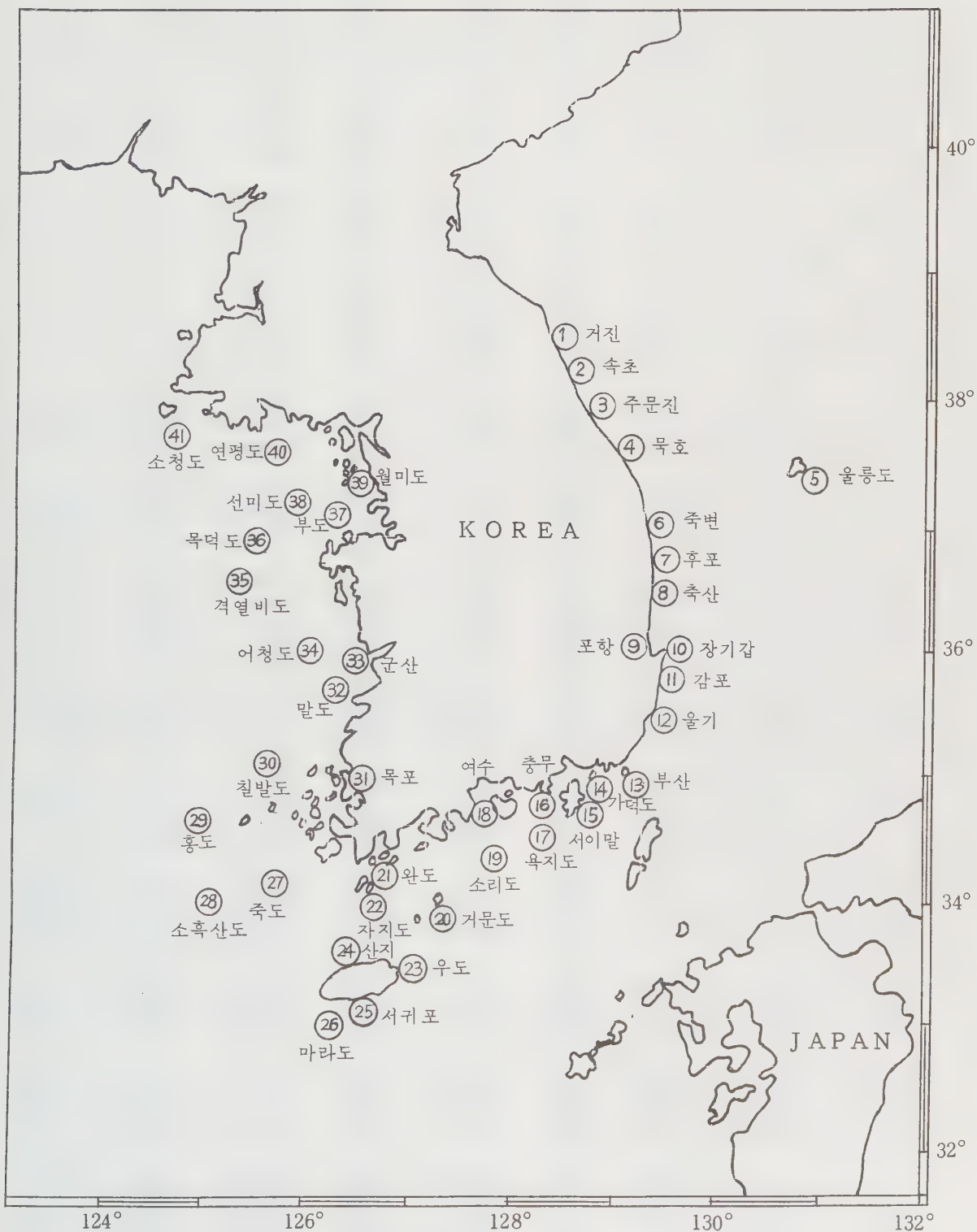
第一編

沿岸定地海洋觀測成績

PART 1

COASTAL OCEANOGRAPHIC DATA

1 9 8 2



沿岸定地 海洋觀測點 位置圖
Location of the Shore Stations

沿岸定地 月別 表面水温

Surface Water Temperature of the Shore Stations (단위: °C)

월 Month	관측점 Station			① 거진 Geojin	② 속초 Sogcho	③ 주문진 Jumunjin	④ 묵호 Mugho	⑤ 울릉도 Ulneung-Do	⑥ 죽변 Jugbyeon	⑦ 후포 Hupo
	순 Ten day									
1 월 Jan.	상	순	1st	4.58	6.18	9.23	9.91	14.29	10.95	10.70
	중	순	2nd	3.48	3.43	7.72	8.61	13.98	10.54	8.65
	하	순	3rd	3.60	3.06	7.22	6.65	12.15	9.80	8.96
	월	평	Mean	3.89	4.22	8.06	8.39	13.47	10.40	9.44
2 월 Feb.	상	순	1st	2.86	2.66	5.33	6.21	11.16	9.24	7.68
	중	순	2nd	2.45	3.35	6.59	7.56	11.04	9.41	9.67
	하	순	3rd	3.24	4.63	8.05	8.10	11.21	8.74	10.11
	월	평	Mean	2.85	3.55	6.66	7.29	11.14	9.13	9.15
3 월 Mar.	상	순	1st	3.19	5.63	7.46	7.56	11.35	8.33	10.09
	중	순	2nd	4.70	6.97	8.02	8.18	11.97	9.22	10.25
	하	순	3rd	5.99	8.30	8.92	9.63	11.84	9.44	10.72
	월	평	Mean	4.63	6.97	8.13	8.46	11.72	9.00	10.35
4 월 Apr.	상	순	1st	5.91	9.18	9.38	10.47	12.73	9.38	11.27
	중	순	2nd	7.07	10.00	10.49	11.03	12.69	11.06	11.80
	하	순	3rd	7.51	9.27	11.17	11.73	13.68	11.98	12.53
	월	평	Mean	6.83	9.48	10.35	11.08	13.03	10.80	11.87
5 월 May	상	순	1st	8.16	9.73	10.60	13.12	14.10	11.67	12.69
	중	순	2nd	9.19	10.89	12.28	13.47	14.89	12.37	13.18
	하	순	3rd	12.02	12.91	13.61	14.02	16.17	14.21	13.28
	월	평	Mean	9.79	11.18	12.16	13.54	15.05	12.75	13.05
6 월 Jun.	상	순	1st	13.18	14.50	15.94	16.17	17.59	15.12	15.67
	중	순	2nd	16.66	17.58	18.07	17.72	18.85	17.47	18.11
	하	순	3rd	18.00	18.26	18.80	19.44	20.53	19.15	20.36
	월	평	Mean	15.95	16.78	17.60	17.78	18.99	17.25	18.05
7 월 Jul.	상	순	1st	20.70	22.47	20.59	19.55	20.87	20.29	22.11
	중	순	2nd	21.60	22.33	22.46	20.39	22.06	19.75	20.31
	하	순	3rd	19.84	21.05	21.75	20.39	23.04	21.32	20.51
	월	평	Mean	20.71	21.95	21.60	20.11	21.99	20.45	20.98
8 월 Aug.	상	순	1st	20.02	21.62	21.75	22.38	22.83	22.98	22.79
	중	순	2nd	19.61	22.36	22.01	22.88	23.48	22.25	22.70
	하	순	3rd	20.04	21.70	22.09	21.84	23.64	21.72	21.76
	월	평	Mean	19.89	21.89	21.95	22.37	23.32	22.32	22.42
9 월 Sep.	상	순	1st	22.05	21.63	21.74	22.18	22.87	23.12	21.22
	중	순	2nd	21.33	21.82	21.60	21.17	23.14	22.84	21.53
	하	순	3rd	20.91	20.78	20.81	20.16	21.50	20.92	20.31
	월	평	Mean	21.43	21.41	21.38	21.17	22.50	22.29	21.02
10 월 Oct.	상	순	1st	20.78	20.27	19.69	20.39	21.14	19.92	21.46
	중	순	2nd	17.67	19.10	19.21	18.99	20.94	18.09	19.95
	하	순	3rd	17.89	16.54	16.56	16.78	19.44	17.61	18.86
	월	평	Mean	18.78	18.64	18.49	18.72	20.51	18.54	20.09
11 월 Nov.	상	순	1st	15.40	15.47	15.49	15.80	17.83	16.85	15.62
	중	순	2nd	12.88	13.32	13.01	14.03	17.56	14.28	15.65
	하	순	3rd	10.96	11.47	11.12	11.75	16.88	13.17	14.55
	월	평	Mean	13.08	13.41	13.21	13.86	17.42	14.77	15.27
12 월 Dec.	상	순	1st	9.88	10.40	10.32	10.67	15.30	12.93	13.20
	중	순	2nd	8.74	7.63	8.87	8.89	14.67	12.12	12.77
	하	순	3rd	8.56	8.63	9.21	9.29	13.54	11.60	12.03
	월	평	Mean	9.06	8.89	9.47	9.62	14.50	12.22	12.67
년 Year	년 평 균			12.24	13.20	14.09	14.37	16.97	14.99	15.36

월 Month	관측점 Station			⑧ 축 산	⑨ 포 항	⑩ 장 기 갑	⑪ 감 포	⑫ 울 기	⑬ 부 산	⑭ 가덕도
	순 Ten day			Chugsan	Pohang	Janggigab	Gampo	Ulg i	Busan	Gadeog-Do
1 월 Jan.	상	순	1st	12.20	11.06	11.06	13.42	11.66	12.18	11.10
	중	순	2nd	10.98	9.22	7.77	10.94	11.38	10.69	11.14
	하	순	3rd	9.77	8.17	8.68	11.32	11.63	10.36	10.77
	월	평	Mean	10.98	9.48	9.17	11.89	11.56	11.08	11.00
2 월 Feb.	상	순	1st	9.22	6.66	8.27	10.71	10.51	9.92	9.51
	중	순	2nd	10.07	7.80	9.81	11.18	11.14	10.53	9.93
	하	순	3rd	10.50	9.78	10.12	11.69	11.59	11.70	10.33
	월	평	Mean	9.93	8.08	9.40	11.19	11.08	10.72	9.92
3 월 Mar.	상	순	1st	11.48	9.75	10.30	11.22	11.35	11.25	9.12
	중	순	2nd	12.79	10.53	11.13	12.00	11.19	11.82	10.18
	하	순	3rd	12.90	11.22	12.31	12.59	11.65	12.43	10.62
	월	평	Mean	12.39	10.50	11.25	11.94	11.40	11.83	9.97
4 월 Apr.	상	순	1st	13.44	11.83	12.24	12.47	11.85	12.91	11.96
	중	순	2nd	13.27	12.27	13.50	12.88	12.27	13.65	12.69
	하	순	3rd	13.43	13.33	13.76	13.45	13.09	14.05	13.23
	월	평	Mean	13.38	12.48	13.17	12.93	12.40	13.54	12.63
5 월 May	상	순	1st	13.72	14.40	15.69	13.60	13.85	15.20	14.31
	중	순	2nd	12.78	14.89	17.47	13.75	14.02	16.27	16.22
	하	순	3rd	13.95	15.38	17.30	14.71	15.90	15.68	16.74
	월	평	Mean	13.48	14.89	16.82	14.02	14.59	15.72	15.76
6 월 Jun.	상	순	1st	16.14	17.55	17.12	17.83	16.93	17.53	18.41
	중	순	2nd	17.36	19.78	18.33	17.93	18.33	18.90	19.02
	하	순	3rd	19.00	21.65	20.04	20.31	19.75	20.97	20.14
	월	평	Mean	17.50	19.66	18.50	18.69	18.34	19.13	19.19
7 월 Jul.	상	순	1st	20.68	22.34	21.67	21.49	20.17	21.98	22.63
	중	순	2nd	18.94	16.62	18.04	17.21	16.52	20.36	21.91
	하	순	3rd	17.93	21.49	18.60	19.29	18.57	20.65	20.39
	월	평	Mean	19.18	20.15	19.44	19.33	18.42	21.00	21.64
8 월 Aug.	상	순	1st	24.06	24.24	22.45	22.79	20.84	23.19	23.57
	중	순	2nd	24.40	23.83	22.98	20.44	20.27	23.64	24.50
	하	순	3rd	22.01	22.96	22.00	22.58	21.84	23.20	22.64
	월	평	Mean	23.49	23.68	22.48	21.94	20.98	23.34	23.57
9 월 Sep.	상	순	1st	22.49	23.81	23.43	24.11	22.71	24.08	23.37
	중	순	2nd	22.67	23.38	22.96	23.49	22.32	22.86	22.43
	하	순	3rd	21.25	21.18	19.96	21.94	20.56	21.47	21.50
	월	평	Mean	22.14	22.79	22.12	23.18	21.86	22.80	22.43
10 월 Oct.	상	순	1st	20.77	21.20	19.88	21.23	20.09	21.44	20.65
	중	순	2nd	20.38	19.81	19.29	20.70	19.58	20.41	19.90
	하	순	3rd	19.24	16.95	16.65	18.11	17.45	17.94	17.95
	월	평	Mean	20.13	19.32	18.61	20.01	19.04	19.93	19.50
11 월 Nov.	상	순	1st	17.89	15.89	16.14	17.77	17.14	17.40	17.47
	중	순	2nd	14.89	14.66	15.53	16.58	15.50	15.47	15.29
	하	순	3rd	12.96	12.25	12.31	15.47	14.54	15.31	14.48
	월	평	Mean	15.25	14.27	14.66	16.61	15.73	16.06	15.74
12 월 Dec.	상	순	1st	12.19	10.88	11.21	15.08	14.87	13.54	13.82
	중	순	2nd	10.67	8.99	10.74	14.70	14.15	12.51	12.40
	하	순	3rd	10.14	9.08	10.09	14.14	13.43	12.62	12.78
	월	평	Mean	11.00	9.65	10.68	14.64	14.15	12.89	13.00
년 Year	년	평	균	15.74	15.41	15.53	16.36	15.80	16.50	16.20

월 Month	관측점 Station			15 서이말 Seoimal	16 충무 Chungmu	17 육지도 Yogji-Do	18 여수 Yeosu	19 소리도 Sori-Do	20 거문도 Geomun-Do	21 완도 Wan-Do
	순 Ten day									
1 월 Jan.	상	순	1st	13.22	8.81	11.21	7.31	10.66	14.73	8.57
	중	순	2nd	13.10	7.91	11.27	6.03	10.79	13.44	8.36
	하	순	3rd	12.79	7.07	11.14	5.15	9.93	13.02	6.95
	월	평	Mean	13.03	7.93	11.21	6.16	10.46	13.73	7.96
2 월 Feb.	상	순	1st	12.06	6.50	10.76	4.38	9.03	11.18	6.19
	중	순	2nd	11.63	7.78	10.65	5.04	9.72	10.62	6.89
	하	순	3rd	11.89	9.53	10.70	6.55	9.97	11.54	7.79
	월	평	Mean	11.86	7.94	10.70	5.32	9.57	11.11	6.96
3 월 Mar.	상	순	1st	11.97	10.43	10.90	7.57	10.44	11.25	8.39
	중	순	2nd	12.52	11.69	11.25	9.44	10.72	11.91	9.37
	하	순	3rd	12.79	12.81	11.97	10.76	11.71	13.09	10.15
	월	평	Mean	12.43	11.64	11.37	9.30	10.96	12.08	9.30
4 월 Apr.	상	순	1st	12.68	13.18	12.35	12.17	12.42	12.69	11.12
	중	순	2nd	13.10	14.07	13.02	13.27	12.89	13.20	12.11
	하	순	3rd	13.48	15.20	13.65	14.39	12.80	13.81	13.21
	월	평	Mean	13.09	14.15	13.01	13.28	12.70	13.23	12.15
5 월 May	상	순	1st	14.00	15.74	14.57	15.49	14.49	14.49	14.33
	중	순	2nd	14.55	16.92	17.46	17.33	13.88	15.20	15.37
	하	순	3rd	15.01	17.95	16.46	17.74	15.57	16.28	16.73
	월	평	Mean	14.52	16.87	16.16	16.85	14.65	15.32	15.48
6 월 Jun.	상	순	1st	16.72	18.74	17.57	19.23	16.94	17.70	17.61
	중	순	2nd	17.93	20.01	18.29	20.68	17.83	18.62	18.59
	하	순	3rd	19.52	20.33	17.99	21.78	19.40	19.33	19.42
	월	평	Mean	18.06	19.69	17.95	20.56	18.06	18.55	18.54
7 월 Jul.	상	순	1st	20.42	22.35	18.49	22.92	-	20.68	21.10
	중	순	2nd	19.98	23.34	18.86	24.21	-	23.11	21.69
	하	순	3rd	18.26	21.68	19.15	23.87	-	21.06	21.04
	월	평	Mean	19.53	22.46	18.83	23.67	-	21.62	21.28
8 월 Aug.	상	순	1st	21.73	23.78	23.11	24.10	24.03	24.70	22.31
	중	순	2nd	22.81	24.44	23.40	25.32	23.91	25.45	23.28
	하	순	3rd	24.31	22.15	24.15	24.29	21.80	25.07	21.85
	월	평	Mean	22.95	23.46	23.55	24.57	23.25	25.07	22.48
9 월 Sep.	상	순	1st	24.12	24.00	24.00	23.72	23.73	23.80	22.42
	중	순	2nd	22.53	23.51	22.84	23.51	24.00	22.87	22.23
	하	순	3rd	21.41	23.16	20.87	22.66	22.69	21.96	21.74
	월	평	Mean	22.69	23.56	22.57	23.30	23.47	22.88	22.13
10 월 Oct.	상	순	1st	20.76	21.66	21.36	21.48	22.18	21.65	20.78
	중	순	2nd	19.83	20.73	20.13	21.20	21.30	20.94	20.16
	하	순	3rd	17.38	18.37	19.49	19.45	19.18	18.04	17.77
	월	평	Mean	19.32	20.25	20.33	20.71	20.89	20.21	19.57
11 월 Nov.	상	순	1st	16.90	17.23	17.23	17.22	17.23	17.24	16.18
	중	순	2nd	15.38	15.60	15.53	16.04	15.69	16.25	14.70
	하	순	3rd	14.78	13.30	15.32	14.02	14.93	15.59	13.14
	월	평	Mean	15.69	15.48	16.03	15.76	15.95	16.36	14.67
12 월 Dec.	상	순	1st	14.73	11.59	13.65	11.46	14.93	15.65	12.17
	중	순	2nd	14.17	9.68	13.83	9.86	14.83	14.03	10.47
	하	순	3rd	13.31	8.50	13.16	8.74	14.30	13.43	10.11
	월	평	Mean	14.07	9.92	13.55	10.02	14.69	14.37	10.92
년 Year	년	평	균	16.44	16.11	16.27	15.79	(15.88)	17.04	15.12

월 Month	관측점 Station 순 Ten day			② 자지도 Jaji -Do	③ 우 도 U-Do	④ 산 지 Sanji	⑤ 서귀포 Seogwipo	⑥ 마라도 Mara -Do	⑦ 죽 도 Jug -Do	⑧ 소흑산도 Soheugsan -Do
1 월 Jan.	상 하 월 평균	순 순 순 Mean	1st 2nd 3rd Mean	9.23 8.98 8.61 8.94	15.34 14.72 14.15 14.74	14.76 13.73 13.24 13.91	15.90 15.50 14.70 15.35	15.62 15.21 14.85 15.23	9.18 7.63 6.85 7.89	9.74 9.87 10.06 9.89
2 월 Feb.	상 하 월 평균	순 순 순 Mean	1st 2nd 3rd Mean	7.93 7.74 8.63 8.10	14.27 14.30 14.19 14.25	11.91 12.53 13.76 12.73	14.23 14.49 14.80 14.51	13.88 14.02 14.10 14.00	7.11 7.50 7.13 7.25	9.29 9.22 8.81 9.11
3 월 Mar.	상 하 월 평균	순 순 순 Mean	1st 2nd 3rd Mean	9.32 9.78 10.24 9.78	14.18 14.15 14.15 14.16	14.12 14.25 14.04 14.14	14.32 14.49 15.22 14.68	13.90 13.99 14.55 14.15	6.66 8.66 8.95 8.09	8.42 8.78 8.53 8.58
4 월 Apr.	상 하 월 평균	순 순 순 Mean	1st 2nd 3rd Mean	10.90 11.75 12.80 11.80	14.03 14.86 15.11 14.67	14.07 14.71 15.13 14.64	14.81 15.31 15.86 15.33	14.42 14.45 15.31 14.73	9.57 10.45 10.48 10.17	8.82 9.07 9.85 9.25
5 월 May	상 하 월 평균	순 순 순 Mean	1st 2nd 3rd Mean	13.80 14.14 14.64 14.19	15.75 16.52 17.76 16.68	16.57 17.01 17.17 16.92	15.81 17.49 17.92 17.07	15.96 16.30 16.21 16.16	11.48 12.37 14.49 12.78	11.43 13.02 12.65 12.37
6 월 Jun.	상 하 월 평균	순 순 순 Mean	1st 2nd 3rd Mean	15.97 16.67 17.39 16.68	18.43 20.69 20.95 20.02	17.44 17.78 19.01 18.08	18.76 18.46 20.47 19.23	18.15 18.93 20.17 19.08	16.01 15.77 16.65 16.14	13.36 14.97 18.12 15.48
7 월 Jul.	상 하 월 평균	순 순 순 Mean	1st 2nd 3rd Mean	18.66 19.65 19.17 19.16	20.68 21.41 21.45 21.18	21.96 22.66 22.96 22.53	22.27 21.26 21.80 21.78	22.52 23.38 23.69 23.20	18.80 19.14 19.44 19.13	20.15 21.58 21.17 21.50
8 월 Aug.	상 하 월 평균	순 순 순 Mean	1st 2nd 3rd Mean	22.65 22.70 22.43 22.59	22.61 23.76 23.52 23.30	24.52 25.36 23.77 24.55	24.44 25.09 24.86 24.80	26.45 25.68 25.90 26.01	22.00 19.45 20.38 20.61	23.61 24.43 24.37 24.14
9 월 Sep.	상 하 월 평균	순 순 순 Mean	1st 2nd 3rd Mean	21.88 21.73 21.43 21.68	23.26 22.36 22.02 22.55	23.04 22.28 20.56 21.96	24.66 23.37 23.05 23.69	25.11 23.70 23.76 24.19	19.55 20.69 20.62 20.29	24.13 22.95 21.02 22.70
10 월 Oct.	상 하 월 평균	순 순 순 Mean	1st 2nd 3rd Mean	19.75 18.40 17.64 18.60	21.49 21.32 20.34 21.05	21.35 21.32 20.76 21.14	22.64 22.62 21.83 22.36	22.50 23.17 21.74 22.47	18.93 19.56 16.65 18.98	19.72 17.90 16.21 17.94
11 월 Nov.	상 하 월 평균	순 순 순 Mean	1st 2nd 3rd Mean	16.20 15.58 14.81 15.53	19.93 19.82 19.90 19.88	19.72 18.95 17.69 18.79	21.38 19.56 19.74 20.23	21.03 20.27 19.30 20.20	16.33 15.58 12.83 14.91	19.02 17.18 15.55 17.25
12 월 Dec.	상 하 월 평균	순 순 순 Mean	1st 2nd 3rd Mean	13.70 12.60 11.85 12.72	18.14 17.37 16.67 17.39	16.54 15.77 15.96 16.09	18.64 17.83 16.54 17.67	18.13 16.63 16.84 17.20	13.84 12.43 12.17 12.81	14.75 13.86 12.85 13.82
년 Year	년	평	균	14.98	18.33	17.96	18.89	18.89	14.04	15.17

월 Month	관측점 Station			㉔ 홍 도 Hong-Do	㉕ 칠발도 Chilbal-Do	㉖ 목 포 Mogpo	㉗ 말 도 Mal-Do	㉘ 군 산 Gunsan	㉙ 어청도 Eocheong-Do	㉚ 격열비도 Gyeogyeolbi-Do
	순 Ten day									
1 월	상 중 하	순 순 순	1st 2nd 3rd	8.45 7.76 7.13	7.24 6.36 5.27	6.80 6.28 4.47	5.11 4.25 3.45	3.57 1.85 0.95	6.20 5.72 4.81	6.34 5.30 4.61
Jan.	월 평 균	월 평 균	Mean	7.78	6.29	5.85	4.27	2.12	5.58	5.42
2 월	상 중 하	순 순 순	1st 2nd 3rd	5.76 6.23 6.17	4.47 4.59 4.84	3.40 3.92 5.28	3.59 2.57 3.96	0.40 2.08 4.87	4.12 3.58 3.90	3.73 3.55 3.64
Feb.	월 평 균	월 평 균	Mean	6.05	4.63	4.20	3.37	2.45	3.87	3.64
3 월	상 중 하	순 순 순	1st 2nd 3rd	6.18 6.50 6.77	5.29 6.11 6.75	6.23 7.49 8.53	4.23 5.19 6.63	5.73 7.29 8.91	4.20 4.88 5.46	3.98 4.71 5.24
Mar.	월 평 균	월 평 균	Mean	6.48	6.05	7.43	5.35	7.31	4.85	4.64
4 월	상 중 하	순 순 순	1st 2nd 3rd	7.41 8.83 12.82	7.17 8.13 9.35	9.98 10.95 13.12	6.55 7.35 8.93	10.90 11.82 14.29	5.81 6.46 7.38	5.84 6.31 7.20
Apr.	월 평 균	월 평 균	Mean	9.69	8.22	11.35	7.61	12.34	6.55	6.45
5 월	상 중 하	순 순 순	1st 2nd 3rd	17.33 19.10 13.86	10.38 11.44 13.28	15.20 17.29 19.67	9.65 12.94 14.39	16.46 18.30 20.37	8.60 10.42 11.84	8.18 9.88 11.58
May	월 평 균	월 평 균	Mean	16.76	11.70	17.39	12.33	18.38	10.29	9.88
6 월	상 중 하	순 순 순	1st 2nd 3rd	13.63 15.20 15.21	14.43 16.41 16.88	19.61 21.00 21.98	15.65 16.52 18.04	22.29 23.38 24.38	13.47 16.01 17.43	14.24 15.02 17.22
Jun.	월 평 균	월 평 균	Mean	14.68	15.91	20.86	16.74	23.35	15.64	15.49
7 월	상 중 하	순 순 순	1st 2nd 3rd	16.62 20.44 19.19	16.87 17.44 18.48	23.51 23.86 23.94	19.24 20.93 22.16	26.38 26.34 25.97	19.49 20.67 21.29	17.25 18.62 21.68
Jul.	월 평 균	월 평 균	Mean	18.75	17.60	23.77	20.78	26.23	20.48	19.18
8 월	상 중 하	순 순 순	1st 2nd 3rd	23.48 23.92 23.51	18.68 18.70 20.53	25.79 26.23 24.75	23.02 23.88 24.51	27.79 28.00 25.37	21.67 22.80 22.47	22.70 23.80 24.00
Aug.	월 평 균	월 평 균	Mean	23.64	19.30	25.59	23.80	27.05	22.31	23.50
9 월	상 중 하	순 순 순	1st 2nd 3rd	23.02 21.19 20.74	22.10 21.29 19.96	24.55 23.55 22.28	24.24 23.50 22.34	25.14 24.19 22.64	22.46 21.66 21.53	24.06 23.42 21.21
Sep.	월 평 균	월 평 균	Mean	21.65	21.12	23.46	23.36	23.99	21.88	22.90
10 월	상 중 하	순 순 순	1st 2nd 3rd	18.88 19.40 16.65	19.43 19.08 18.56	21.34 21.02 18.65	21.28 20.58 19.49	21.50 21.02 16.85	20.40 19.57 18.74	20.69 20.96 19.26
Oct.	월 평 균	월 평 균	Mean	17.47	19.02	20.34	20.45	19.79	18.93	20.30
11 월	상 중 하	순 순 순	1st 2nd 3rd	16.28 14.71 13.99	16.43 15.80 14.76	17.44 15.71 13.24	17.60 16.39 14.20	15.23 13.11 10.48	17.62 16.61 15.22	17.90 16.84 15.11
Nov.	월 평 균	월 평 균	Mean	14.99	15.66	15.46	16.06	12.94	16.48	16.62
12 월	상 중 하	순 순 순	1st 2nd 3rd	13.32 12.04 11.44	12.90 10.68 9.73	11.19 9.07 8.63	11.15 8.30 7.72	7.43 4.06 4.05	13.38 11.32 9.88	13.21 10.57 9.91
Dec.	월 평 균	월 평 균	Mean	12.27	11.10	9.63	9.06	5.18	11.53	11.23
년 Year	년 평 균	년 평 균	Mean	14.18	13.05	15.44	13.60	15.09	13.20	13.27

월 Month	관측점 Station			㉖ 목덕도 Mogdeog -Do	㉗ 부도 Bu-Do	㉘ 선미도 Seonmi -Do	㉙ 월미도 Weolmi -Do	㉚ 연평도 Yeonpyeong -Do	㉛ 소청도 Socheong -Do
	순 Ten day								
1 월 Jan.	상	순	1st	4.65	6.13	4.66	4.73	2.42	5.99
	중	순	2nd	3.80	5.22	3.95	2.58	0.79	5.02
	하	순	3rd	2.92	4.05	3.37	1.67	-0.20	4.75
	월	평	Mean	3.79	5.13	3.99	2.99	1.00	5.25
2 월 Feb.	상	순	1st	2.18	2.86	2.62	0.23	-0.66	4.23
	중	순	2nd	2.03	2.32	1.92	1.53	0.70	3.70
	하	순	3rd	2.60	2.51	2.95	3.30	2.07	3.89
	월	평	Mean	2.27	2.56	2.50	1.69	0.73	3.94
3 월 Mar.	상	순	1st	2.81	3.43	3.22	3.54	2.93	4.20
	중	순	2nd	3.53	3.98	3.69	4.99	4.53	4.68
	하	순	3rd	4.38	4.84	4.74	6.11	5.93	5.22
	월	평	Mean	3.57	4.08	3.88	4.88	4.46	4.70
4 월 Apr.	상	순	1st	5.25	6.00	5.40	7.46	6.81	5.88
	중	순	2nd	6.36	7.34	6.56	8.63	8.38	6.88
	하	순	3rd	7.46	8.52	7.75	11.03	11.01	7.41
	월	평	Mean	6.36	7.29	6.57	9.04	8.73	6.72
5 월 May	상	순	1st	8.11	10.14	9.03	12.76	12.22	8.09
	중	순	2nd	8.78	11.40	10.25	14.20	14.23	8.94
	하	순	3rd	10.07	12.81	12.43	15.64	16.45	10.24
	월	평	Mean	8.99	11.45	10.57	14.20	14.30	9.09
6 월 Jun.	상	순	1st	12.15	13.99	14.17	16.79	18.80	11.18
	중	순	2nd	14.46	15.71	15.88	18.37	19.64	12.48
	하	순	3rd	5.91	17.05	16.93	19.75	20.85	14.44
	월	평	Mean	14.17	15.58	15.66	18.30	19.76	12.70
7 월 Jul.	상	순	1st	16.91	18.72	17.90	21.53	22.07	15.75
	중	순	2nd	18.05	19.90	19.40	24.01	23.59	17.18
	하	순	3rd	19.32	21.06	20.51	23.92	24.98	19.00
	월	평	Mean	18.09	19.89	19.27	23.15	23.55	17.31
8 월 Aug.	상	순	1st	20.21	22.42	21.51	25.33	24.97	19.86
	중	순	2nd	21.18	23.87	22.85	25.58	25.70	19.98
	하	순	3rd	22.60	24.64	23.97	24.55	25.27	20.22
	월	평	Mean	21.33	23.64	22.78	25.15	25.31	20.02
9 월 Sep.	상	순	1st	22.81	23.72	23.96	23.78	24.60	19.82
	중	순	2nd	22.02	22.65	23.44	23.14	23.41	18.69
	하	순	3rd	21.35	22.15	22.87	21.49	21.78	17.04
	월	평	Mean	22.06	22.84	23.42	22.80	23.26	18.52
10 월 Oct.	상	순	1st	20.56	21.45	21.25	20.72	20.66	15.74
	중	순	2nd	19.17	20.42	20.02	20.38	19.55	15.25
	하	순	3rd	17.74	19.20	20.47	16.39	17.50	13.70
	월	평	Mean	19.16	20.36	20.58	19.16	19.24	14.90
11 월 Nov.	상	순	1st	17.19	18.40	17.37	15.25	15.33	12.57
	중	순	2nd	16.08	17.24	16.20	13.75	13.49	11.61
	하	순	3rd	13.54	15.16	14.35	10.93	11.24	10.57
	월	평	Mean	15.60	16.93	15.97	13.31	13.35	11.58
12 월 Dec.	상	순	1st	11.97	13.74	11.13	7.90	8.16	9.65
	중	순	2nd	9.51	12.46	9.34	6.22	4.98	8.43
	하	순	3rd	8.08	10.60	6.64	5.49	4.07	7.14
	월	평	Mean	9.85	12.27	9.04	6.54	5.74	8.41
년 Year	년 평 균			12.10	13.50	12.85	13.43	13.29	11.10

沿岸定地 月別 氣溫

Air Temperature of the Shore Stations

(단위 : °C)

월 Month	관측점 Station 수 Ten day	1 거 신 Geojin	② 속 초 Sogcho	③ 주문진 Jumunjin	④ 묵 호 Mugho	⑤ 울릉도 Ulneung-Do	⑥ 죽 변 Jugbyeon	⑦ 후 포 Hupo
1 월 Jan.	상 중 하 월 평균 1st 2nd 3rd Mean	1.31 - 4.09 - 1.50 - 1.43	3.24 - 1.67 1.25 0.94	4.60 0.25 1.90 2.25	2.87 - 1.69 0.54 0.57	6.42 6.36 4.25 5.68	4.32 4.80 2.05 3.70	7.42 1.79 3.80 4.33
2 월 Feb.	상 중 하 월 평균 1st 2nd 3rd Mean	- 2.05 2.13 3.44 1.17	0.04 3.77 4.06 2.62	1.68 4.30 6.20 3.70	- 0.70 2.88 4.84 2.34	2.95 6.21 7.61 5.59	2.40 4.55 7.54 4.83	2.79 5.43 8.21 5.48
3 월 Mar.	상 중 하 월 평균 1st 2nd 3rd Mean	3.83 6.79 7.84 6.15	5.92 8.47 8.94 7.78	7.01 8.73 9.47 8.40	4.97 7.85 8.69 7.17	7.14 8.14 7.70 7.66	6.55 7.45 7.27 7.09	7.01 7.70 7.51 7.41
4 월 Apr.	상 중 하 월 평균 1st 2nd 3rd Mean	10.81 13.02 16.61 13.48	11.64 14.18 13.80 13.21	11.49 12.07 13.95 12.50	10.76 13.33 14.69 12.93	14.36 13.84 15.63 14.61	9.30 12.15 18.20 13.22	6.97 8.98 10.72 8.89
5 월 May	상 중 하 월 평균 1st 2nd 3rd Mean	15.82 18.81 17.86 17.50	16.43 16.45 18.05 16.98	17.60 17.01 17.90 17.50	17.38 16.66 19.85 17.61	17.98 18.88 21.67 19.51	18.50 17.75 19.68 18.64	11.32 12.42 12.11 11.95
6 월 Jun.	상 중 하 월 평균 1st 2nd 3rd Mean	19.78 22.54 21.78 21.37	19.73 23.08 20.90 21.24	19.95 23.28 21.59 21.61	19.45 22.07 19.24 20.25	19.32 21.89 21.82 21.01	19.45 21.85 21.70 21.00	15.02 17.84 18.67 17.18
7 월 Jul.	상 중 하 월 평균 1st 2nd 3rd Mean	24.84 26.68 22.80 24.77	25.08 25.76 23.50 24.78	24.25 25.98 23.12 24.45	24.46 25.00 21.65 23.70	24.85 27.04 25.03 25.64	23.90 23.30 23.09 23.43	20.58 22.04 21.17 21.26
8 월 Aug.	상 중 하 월 평균 1st 2nd 3rd Mean	27.24 26.61 22.30 25.38	27.78 27.88 23.89 26.52	27.58 25.85 24.88 26.10	26.56 24.70 21.51 24.26	26.11 26.17 24.64 25.64	26.55 26.95 25.00 26.17	25.30 26.32 24.86 25.49
9 월 Sep.	상 중 하 월 평균 1st 2nd 3rd Mean	22.49 21.71 20.02 21.41	23.25 22.52 22.32 22.70	24.43 23.32 21.33 23.03	20.15 19.86 16.42 18.81	23.47 23.86 21.07 22.80	24.10 23.85 23.10 23.68	23.85 22.26 20.40 22.17
10 월 Oct.	상 중 하 월 평균 1st 2nd 3rd Mean	19.47 17.96 13.17 16.87	20.45 19.28 15.45 18.39	21.10 20.31 16.08 19.16	17.21 15.45 11.36 14.67	21.80 20.38 15.46 18.61	23.10 22.05 18.50 21.22	23.35 21.30 18.75 21.13
11 월 Nov.	상 중 하 월 평균 1st 2nd 3rd Mean	12.83 10.87 5.34 9.68	13.95 12.30 6.30 10.85	14.30 12.44 8.01 11.58	11.11 9.11 3.85 8.02	16.05 15.40 9.06 13.50	16.60 13.90 8.65 13.05	11.68 12.93 12.25 12.29
12 월 Dec.	상 중 하 월 평균 1st 2nd 3rd Mean	1.61 - 0.70 3.23 1.38	5.50 0.15 6.53 4.06	8.15 3.26 6.12 5.84	3.00 - 2.51 0.63 0.37	8.26 8.61 7.36 8.08	6.71 3.30 6.55 5.52	8.90 2.17 5.12 5.40
년 Year	년 평균	13.14	14.17	14.68	12.56	15.69	15.13	13.58

월 Month	관측점 Station			⑧	⑨	⑩	⑪	⑫	⑬	⑭
	순 Ten day			축 산 Chugsan	포 항 Pohang	장 기 갑 Janggigab	감 포 Gampo	울 기 Ulgi	부 산 Busan	가 덕 도 Gadeog-Do
1 월 Jan.	상	순	1st	0.38	6.10	2.93	5.76	3.80	7.92	5.86
	중	순	2nd	0.58	0.27	2.48	- 1.30	0.98	2.87	0.12
	하	순	3rd	- 1.45	0.93	- 1.02	1.12	1.85	2.89	1.71
	월	평	Mean	- 0.16	2.43	- 0.19	1.86	2.21	4.56	2.56
2 월 Feb.	상	순	1st	- 1.34	1.91	- 1.70	- 0.30	- 0.69	2.67	0.03
	중	순	2nd	0.62	4.90	3.84	5.60	5.20	8.58	5.86
	하	순	3rd	2.06	7.84	5.87	7.40	7.63	8.95	8.59
	월	평	Mean	0.45	4.88	2.67	4.23	4.51	6.73	4.83
3 월 Mar.	상	순	1st	6.23	7.67	4.21	5.71	6.20	9.36	6.74
	중	순	2nd	12.50	9.81	9.06	10.11	9.60	12.93	11.28
	하	순	3rd	15.84	11.17	9.95	10.12	10.45	12.51	10.59
	월	평	Mean	11.52	9.55	7.44	8.65	8.75	11.60	9.54
4 월 Apr.	상	순	1st	16.27	16.25	9.96	11.17	10.70	14.40	11.41
	중	순	2nd	15.19	16.41	11.94	13.24	13.90	15.14	13.14
	하	순	3rd	16.81	17.03	15.44	14.27	14.50	15.95	16.13
	월	평	Mean	16.09	16.56	12.45	12.89	13.03	15.16	13.56
5 월 May	상	순	1st	17.65	19.83	17.97	15.59	16.40	17.12	17.68
	중	순	2nd	18.98	19.05	18.82	16.96	17.30	18.94	19.15
	하	순	3rd	19.47	23.05	20.24	18.07	18.82	19.49	21.14
	월	평	Mean	18.70	20.64	19.01	16.87	17.51	18.52	19.32
6 월 Jun.	상	순	1st	20.96	21.70	20.96	19.23	21.10	20.46	21.28
	중	순	2nd	21.24	23.71	22.94	21.03	21.80	24.00	22.91
	하	순	3rd	21.19	22.22	20.90	21.19	22.60	23.19	22.90
	월	평	Mean	21.13	22.54	21.60	20.48	21.83	22.55	22.36
7 월 Jul.	상	순	1st	22.42	23.39	24.35	23.27	25.10	24.29	25.32
	중	순	2nd	22.57	24.18	23.76	21.05	23.00	24.27	23.86
	하	순	3rd	21.16	23.71	23.06	21.52	23.91	23.63	23.78
	월	평	Mean	22.05	23.76	23.72	21.95	24.00	24.06	24.32
8 월 Aug.	상	순	1st	29.05	27.22	28.92	25.32	27.00	26.91	27.51
	중	순	2nd	32.90	27.46	27.72	25.04	26.70	27.46	27.71
	하	순	3rd	25.03	24.40	23.42	22.45	23.18	25.38	24.48
	월	평	Mean	28.99	26.36	26.69	24.27	25.63	26.58	26.57
9 월 Sep.	상	순	1st	21.17	24.20	22.82	22.49	24.60	25.47	23.62
	중	순	2nd	20.22	23.69	22.39	21.17	22.30	24.75	23.09
	하	순	3rd	17.92	20.20	19.48	19.29	19.10	21.39	20.12
	월	평	Mean	19.77	22.70	21.56	20.98	22.00	23.87	22.28
10 월 Oct.	상	순	1st	17.51	21.94	19.87	19.22	20.10	23.44	21.22
	중	순	2nd	16.58	20.44	18.62	18.13	18.90	21.00	19.66
	하	순	3rd	15.71	15.81	14.60	14.26	14.45	17.98	15.47
	월	평	Mean	16.60	19.40	17.70	17.20	17.82	20.81	18.78
11 월 Nov.	상	순	1st	14.39	14.73	13.82	14.82	13.90	16.42	15.05
	중	순	2nd	13.44	13.22	11.36	12.58	11.30	14.09	12.07
	하	순	3rd	8.37	8.86	6.63	8.50	7.90	10.00	9.14
	월	평	Mean	12.07	12.27	10.60	11.97	11.03	13.50	12.09
12 월 Dec.	상	순	1st	7.69	6.58	3.95	4.75	5.23	9.44	6.16
	중	순	2nd	1.62	3.72	0.62	1.62	2.84	6.01	2.06
	하	순	3rd	1.83	7.16	4.18	2.63	5.09	9.53	5.05
	월	평	Mean	3.71	5.82	2.92	3.00	4.39	8.33	4.42
년 Year	년	평	균	14.24	15.58	13.85	13.70	14.39	16.36	15.05

월 Month	관측점 Station		15 서이말 Seoimal	16 충무 Chungmu	17 목지도 Yogji-Do	18 여수 Yeosu	19 소리도 Sori-Do	20 거문도 Geomun-Do	21 완도 Wan-Do	
	상 Ten	하 day								
1 월 Jan.	상 하	순 순	1st 2nd	5.90 2.60	6.94 2.38	2.70 1.50	5.57 0.75	3.55 - 1.15	6.18 1.91	6.32 3.00
	하	순	3rd	2.94	2.26	- 0.82	3.59	1.45	1.63	3.58
	월	평	Mean	3.81	3.86	1.13	3.30	1.32	3.24	4.30
2 월 Feb.	상 하	순 순	1st 2nd	1.16 6.70	2.76 7.93	0.30 5.50	1.65 6.03	0.47 5.30	0.12 6.02	3.04 5.08
	하	순	3rd	7.63	8.11	9.13	9.16	6.37	8.12	7.03
	월	평	Mean	5.16	6.27	4.98	5.61	4.05	4.75	5.05
3 월 Mar.	상 하	순 순	1st 2nd	6.60 10.70	8.43 12.36	8.70 10.85	8.38 11.46	5.00 9.40	6.69 10.37	6.87 10.12
	하	순	3rd	12.09	13.07	13.69	11.65	10.18	9.58	10.64
	월	평	Mean	9.80	11.29	11.08	10.50	8.19	8.88	9.21
4 월 Apr.	상 하	순 순	1st 2nd	10.70 13.50	12.28 14.31	13.02 14.36	12.63 15.35	10.50 11.80	10.32 13.94	11.98 12.91
	하	순	3rd	14.80	16.31	15.83	17.43	12.50	15.32	15.43
	월	평	Mean	13.00	14.30	14.40	15.14	11.60	13.19	13.44
5 월 May	상 하	순 순	1st 2nd	16.10 17.60	19.11 19.30	18.04 20.05	19.76 20.65	16.10 17.10	17.26 17.93	16.18 17.84
	하	순	3rd	19.55	20.13	21.71	21.33	18.64	20.53	20.54
	월	평	Mean	17.75	19.51	19.93	20.58	17.28	18.57	18.19
6 월 Jun.	상 하	순 순	1st 2nd	20.70 21.90	22.01 23.64	22.16 23.10	22.38 21.94	18.90 20.70	19.93 22.66	20.74 21.69
	하	순	3rd	22.10	23.28	24.71	23.23	21.50	22.18	23.30
	월	평	Mean	21.57	22.98	23.32	22.52	20.37	21.59	21.91
7 월 Jul.	상 하	순 순	1st 2nd	24.00 23.10	25.46 24.32	24.79 28.13	25.35 25.88	23.20 23.10	24.21 24.04	24.13 23.92
	하	순	3rd	23.82	25.39	28.27	24.04	23.45	24.79	23.69
	월	평	Mean	23.64	25.06	27.06	25.09	23.25	24.35	23.91
8 월 Aug.	상 하	순 순	1st 2nd	26.40 27.10	27.35 27.64	28.24 27.99	26.22 27.53	26.50 26.10	28.34 27.63	27.23 25.90
	하	순	3rd	24.09	24.46	25.66	24.81	24.35	25.60	23.85
	월	평	Mean	25.86	26.48	27.30	26.19	25.65	27.19	25.66
9 월 Sep.	상 하	순 순	1st 2nd	23.00 22.40	24.59 24.14	22.15 21.24	24.60 23.58	22.90 22.10	24.28 22.30	22.49 22.20
	하	순	3rd	20.10	21.67	21.49	22.37	20.50	20.50	21.71
	월	평	Mean	21.90	23.47	21.63	23.52	21.83	22.36	22.13
10 월 Oct.	상 하	순 순	1st 2nd	20.00 20.20	21.68 20.55	19.18 17.92	22.26 20.89	20.30 20.10	20.35 19.93	20.61 19.50
	하	순	3rd	16.27	17.00	16.28	19.02	16.73	16.00	16.15
	월	평	Mean	18.82	19.74	17.79	20.72	18.42	18.76	18.75
11 월 Nov.	상 하	순 순	1st 2nd	15.60 12.40	16.73 13.26	15.57 14.90	15.32 14.21	15.70 12.60	15.40 11.40	15.25 12.99
	하	순	3rd	9.50	7.99	12.01	11.99	9.40	8.90	10.70
	월	평	Mean	12.50	12.66	14.16	13.84	12.57	11.90	12.98
12 월 Dec.	상 하	순 순	1st 2nd	6.40 3.13	7.70 5.18	7.30 8.10	9.02 5.07	7.60 4.40	6.90 4.70	8.16 6.23
	하	순	3rd	6.45	6.93	11.05	8.21	7.73	7.64	6.95
	월	평	Mean	5.34	6.60	8.82	7.43	6.58	6.41	7.11
년 Year	년	평	년	14.93	16.02	15.97	16.20	14.26	15.10	15.22

월 Month	관측점 Station			㉒ 자지도 Jaji-Do	㉓ 우도 U-Do	㉔ 산지 Sanji	㉕ 서귀포 Seogwipo	㉖ 마라도 Mara-Do	㉗ 죽도 Jug-Do	㉘ 소흑산도 Soheugsan-Do
	순 Ten	날 day								
1 월 Jan.	상	순	1st	3.34	6.00	8.93	8.99	6.48	6.25	5.58
	중	순	2nd	- 0.98	1.28	5.20	4.17	4.21	1.55	1.95
	하	순	3rd	1.61	3.59	4.97	5.65	4.88	2.62	2.99
	월	평	Mean	1.32	3.62	6.36	6.27	5.19	3.47	3.47
2 월 Feb.	상	순	1st	- 0.11	2.00	5.55	5.15	3.78	2.30	1.78
	중	순	2nd	4.73	5.35	9.10	9.79	7.31	4.80	4.21
	하	순	3rd	6.81	8.25	10.90	10.77	8.88	5.75	5.64
	월	평	Mean	3.81	5.20	8.52	8.57	6.66	4.28	3.88
3 월 Mar.	상	순	1st	5.45	7.90	10.40	12.20	7.45	5.30	5.86
	중	순	2nd	8.94	11.15	11.90	14.23	10.75	10.01	7.47
	하	순	3rd	9.15	9.72	12.86	14.28	11.08	8.32	7.99
	월	평	Mean	7.85	9.59	11.72	13.57	9.76	7.88	7.11
4 월 Apr.	상	순	1st	10.27	11.10	12.55	15.92	12.44	9.07	10.87
	중	순	2nd	12.74	13.64	14.95	16.03	14.02	10.40	12.36
	하	순	3rd	13.88	14.95	16.20	16.32	13.54	13.20	13.39
	월	평	Mean	12.20	13.23	14.57	16.09	13.33	10.89	12.21
5 월 May	상	순	1st	15.43	16.78	17.95	17.77	15.94	15.13	16.30
	중	순	2nd	17.73	17.60	19.95	19.33	18.41	15.45	17.63
	하	순	3rd	19.21	20.37	20.77	21.67	19.94	17.74	21.49
	월	평	Mean	17.46	18.25	19.56	19.59	18.10	16.11	18.47
6 월 Jun.	상	순	1st	19.70	20.10	20.85	21.98	20.34	18.95	20.17
	중	순	2nd	22.26	21.80	22.35	22.96	22.09	20.17	21.09
	하	순	3rd	21.63	21.45	21.05	22.78	22.05	20.81	21.27
	월	평	Mean	21.20	21.12	21.42	22.57	21.49	19.98	20.84
7 월 Jul.	상	순	1st	22.67	24.35	23.55	24.28	23.81	22.66	22.58
	중	순	2nd	21.72	23.12	23.05	23.31	24.05	23.44	23.69
	하	순	3rd	22.38	23.71	25.23	25.14	25.36	23.48	24.11
	월	평	Mean	22.26	23.73	23.94	24.24	24.41	23.19	23.46
8 월 Aug.	상	순	1st	25.79	26.30	27.70	27.04	27.28	26.60	26.21
	중	순	2nd	25.77	26.58	27.75	26.70	27.23	26.63	25.77
	하	순	3rd	22.94	24.50	25.14	26.34	26.77	23.25	23.57
	월	평	Mean	24.83	25.79	26.86	26.69	27.09	25.49	25.18
9 월 Sep.	상	순	1st	21.41	23.12	23.50	25.33	24.50	23.79	23.12
	중	순	2nd	21.30	22.18	22.55	23.94	23.15	21.83	21.94
	하	순	3rd	18.24	19.71	20.10	21.83	21.35	19.21	19.92
	월	평	Mean	20.32	21.67	22.05	23.70	23.00	21.61	21.66
10 월 Oct.	상	순	1st	18.62	20.05	21.25	22.91	21.88	18.88	19.18
	중	순	2nd	18.89	19.37	21.55	22.16	21.46	19.13	18.55
	하	순	3rd	15.27	16.29	18.50	19.63	18.60	16.69	15.22
	월	평	Mean	17.59	18.57	20.43	21.57	20.65	18.23	17.65
11 월 Nov.	상	순	1st	14.46	15.74	17.15	17.94	19.27	13.84	14.62
	중	순	2nd	11.78	13.71	14.85	17.28	15.72	11.18	12.59
	하	순	3rd	10.06	11.44	13.30	14.83	12.41	8.14	10.67
	월	평	Mean	12.10	13.63	15.10	16.68	15.80	11.05	12.63
12 월 Dec.	상	순	1st	7.81	7.92	11.10	12.40	11.65	8.35	8.19
	중	순	2nd	4.76	4.80	7.70	10.69	6.22	4.55	5.65
	하	순	3rd	7.78	7.54	9.64	11.16	9.49	5.34	6.50
	월	평	Mean	12.72	6.75	9.48	11.42	9.12	6.08	6.78
년 Year	년	평	균	14.47	15.10	16.67	17.58	16.22	14.02	14.45

월 Month	관측점 Station 순 Ten day		㉑ 홍 도 Hong-Do	㉒ 칠발도 Chilbal-Do	㉓ 목 포 Mogpo	㉔ 말 도 Mal-Do	㉕ 군 산 Gunsan	㉖ 어청도 Eocheong-Do	㉗ 격열비도 Gyeogyeolbi-Do
	상 상 하 월 월 평 균	순 순 순 순 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean
1 월 Jan.	상 상 하 월 월 평 균	순 순 순 순 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean
2 월 Feb.	상 상 하 월 월 평 균	순 순 순 순 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean
3 월 Mar.	상 상 하 월 월 평 균	순 순 순 순 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean
4 월 Apr.	상 상 하 월 월 평 균	순 순 순 순 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean
5 월 May	상 상 하 월 월 평 균	순 순 순 순 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean
6 월 Jun.	상 상 하 월 월 평 균	순 순 순 순 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean
7 월 Jul.	상 상 하 월 월 평 균	순 순 순 순 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean
8 월 Aug.	상 상 하 월 월 평 균	순 순 순 순 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean
9 월 Sep.	상 상 하 월 월 평 균	순 순 순 순 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean
10 월 Oct.	상 상 하 월 월 평 균	순 순 순 순 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean
11 월 Nov.	상 상 하 월 월 평 균	순 순 순 순 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean
12 월 Dec.	상 상 하 월 월 평 균	순 순 순 순 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean
년 Year	년 년 평 평 균	년 년 평 평 균	1st 2nd 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean	1st 2nd 3rd Mean

월	관측점 Station			㉔ 목덕도 Mogdeog -Do	㉕ 부도 Bu-Do	㉖ 선미도 Seonmi -Do	㉗ 월미도 Weolmi -Do	㉘ 연평도 Yeongyeong -Do	㉙ 소청도 Socheong -Do	
Month	순	날	일	Ten day						
1 월	상	순	1st		1.48	- 0.36	- 1.40	6.53	- 1.40	1.00
Jan.	중	순	2nd		- 3.21	- 3.26	- 6.75	- 2.71	- 5.40	- 3.55
	하	순	3rd		- 0.93	- 2.68	- 4.82	- 1.83	- 2.72	- 0.23
	월	평	Mean		- 0.89	- 2.10	- 4.32	0.66	- 3.17	- 0.93
2 월	상	순	1st		- 1.87	- 3.30	- 4.20	- 4.70	- 3.80	- 2.15
Feb.	중	순	2nd		1.62	0.10	- 0.90	1.26	0.10	2.50
	하	순	3rd		2.78	2.08	0.13	7.26	2.56	4.19
	월	평	Mean		0.84	- 0.37	- 1.66	1.27	- 0.38	1.51
3 월	상	순	1st		2.80	1.81	1.70	1.90	2.85	3.30
Mar.	중	순	2nd		4.23	4.22	4.40	5.87	5.90	5.70
	하	순	3rd		4.61	3.90	4.27	5.96	5.50	5.73
	월	평	Mean		3.88	3.31	3.46	4.58	4.75	4.91
4 월	상	순	1st		6.62	6.16	9.00	8.97	9.40	9.60
Apr.	중	순	2nd		7.77	6.37	10.50	9.13	10.25	8.70
	하	순	3rd		11.45	11.10	14.00	14.04	15.40	13.00
	월	평	Mean		8.61	7.88	11.17	10.71	11.68	10.43
5 월	상	순	1st		10.19	12.20	13.80	14.30	13.15	11.55
May	중	순	2nd		12.29	13.90	15.40	15.25	15.20	14.10
	하	순	3rd		14.17	16.82	17.82	17.52	16.95	15.36
	월	평	Mean		12.22	14.31	15.67	15.69	15.10	13.67
6 월	상	순	1st		15.78	17.40	20.20	18.12	19.90	18.20
Jun.	중	순	2nd		17.75	19.00	22.10	20.48	21.70	18.90
	하	순	3rd		18.90	20.60	21.40	21.82	22.50	20.80
	월	평	Mean		17.48	19.00	21.23	20.14	21.37	19.30
7 월	상	순	1st		22.13	22.43	27.00	23.50	25.55	24.30
Jul.	중	순	2nd		22.64	22.60	24.00	23.14	25.00	23.70
	하	순	3rd		22.37	22.82	24.18	23.74	24.95	24.54
	월	평	Mean		22.38	22.35	25.06	23.46	25.17	24.18
8 월	상	순	1st		24.00	25.60	26.10	25.18	27.10	25.70
Aug.	중	순	2nd		24.16	24.40	24.80	25.17	26.80	25.70
	하	순	3rd		23.35	22.90	22.45	22.64	24.23	24.36
	월	평	Mean		23.84	24.30	24.45	24.33	26.04	25.25
9 월	상	순	1st		22.82	21.40	21.80	20.83	23.30	23.40
Sep.	중	순	2nd		23.80	21.60	21.80	20.13	22.60	22.70
	하	순	3rd		20.52	17.90	18.40	16.36	19.55	19.80
	월	평	Mean		22.38	20.30	20.67	19.11	21.82	21.97
10 월	상	순	1st		21.27	18.50	19.00	16.09	19.60	19.50
Oct.	중	순	2nd		19.81	17.30	17.40	15.54	17.65	17.80
	하	순	3rd		14.90	11.91	11.27	10.00	12.09	13.09
	월	평	Mean		18.66	15.90	15.89	13.88	16.45	16.25
11 월	상	순	1st		14.35	11.90	10.90	9.95	12.30	12.00
Nov.	중	순	2nd		12.03	10.50	8.40	7.44	8.90	9.80
	하	순	3rd		6.61	4.40	3.10	1.68	4.05	4.90
	월	평	Mean		11.00	8.93	7.47	6.36	8.42	8.90
12 월	상	순	1st		5.16	2.80	1.30	3.30	2.20	3.30
Dec.	중	순	2nd		2.32	0.90	- 1.70	- 2.42	- 0.75	0.60
	하	순	3rd		4.04	1.64	1.27	0.15	1.27	2.36
	월	평	Mean		3.84	1.78	0.29	0.34	1.15	2.09
년 Year	년	평	균		12.02	11.30	11.62	11.64	12.37	12.29

沿岸定地 海洋觀測點 位置表
Position of the Shore Stations

해역 Region	번호 No.	관측지명 Name of the Station	위치 Position		관측회수 Frequency of Observation	관측개시년월 Date of Inauguration
			북위 Lat. (N)	동경 Long. (E)		
동해안 East Coast	1	거진 Geojin	38°28'30"	128°26'00"	매일 Daily ※	1967. 4
	2	속조 Sogcho	38°12'32"	128°36'18"	매일 Daily "	1967. 4
	3	주문진 Jumunjin	37°53'15"	128°50'00"	매일 Daily "	1952. 8
	4	묵호 Mugho	37°32'58"	129°07'15"	매일 Daily "	1967. 6
	5	울릉도 Ulneung-Do	37°29'00"	130°54'35"	매일 Daily "	1931. 11
	6	죽변 Jugbyeon	37°03'28"	129°26'00"	매일 Daily "	1916. 7
	7	후포 Hupo	36°40'42"	129°27'42"	매일 Daily "	1968. 9
	8	축산 Chugsan	36°30'29"	129°27'37"	매일 Daily "	1968. 4
	9	포항 Pohang	36°02'56"	129°26'10"	매일 Daily "	1946. 7
	10	장기갑 Janggigab	36°04'35"	129°34'30"	매일 Daily "	1916. 7
	11	감포 Gampo	35°48'20"	129°30'40"	매일 Daily "	1967. 5
	12	울기 Ulgi	35°29'28"	129°26'50"	매일 Daily "	1939. 1
남해안 South Coast	13	부산 Busan	35°05'08"	129°02'07"	매일 Daily "	1925. 3
	14	가덕도 Gadeog-Do	34°59'20"	128°49'50"	매일 Daily "	1930. 1
	15	서이말 Seoimal	34°47'00"	128°44'10"	매일 Daily "	1967. 4
	16	충무 Chungmu	34°49'55"	128°24'40"	매일 Daily "	1979. 5
	17	육지도 Yogji-Do	34°40'50"	128°10'35"	매일 Daily "	1969. 1
	18	여수 Yeosu	34°44'00"	127°44'00"	매일 Daily "	1921. 1
	19	소리도 Sori-Do	34°24'15"	127°48'15"	매일 Daily "	1928. 4
	20	거문도 Geomun-Do	34°00'30"	127°19'15"	매일 Daily "	1916. 7
	21	완도 Wan-Do	34°19'10"	126°45'00"	매일 Daily "	1967. 9
	22	자지도 Jaji-Do	34°05'20"	126°36'15"	매일 Daily "	1928. 4
	23	우도 U-Do	33°29'10"	126°58'10"	매일 Daily "	1967. 4
	24	산지 Sanji	33°31'10"	126°33'00"	매일 Daily "	1923. 10
	25	서귀포 Seogwipo	33°13'30"	126°34'45"	매일 Daily "	1963. 1
	26	마라도 Mara-Do	33°06'45"	126°16'20"	매일 Daily "	1923. 10
서해안 West Coast	27	죽도 Jug-Do	34°13'30"	125°51'00"	매일 Daily "	1916. 7
	28	소흑산도 Soheugsan-Do	34°05'30"	125°06'05"	매일 Daily "	1925. 10
	29	홍도 Hong-Do	34°42'30"	125°13'00"	매일 Daily "	1933. 1
	30	칠발도 Chilbal-Do	34°47'25"	125°47'30"	매일 Daily "	1967. 5
	31	목포 Mogpo	34°46'40"	126°23'05"	매일 Daily "	1928. 8
	32	말도 Mal-Do	35°51'15"	126°19'10"	매일 Daily "	1967. 4
	33	군산 Gunsan	35°59'15"	126°43'00"	매일 Daily "	1939. 4
	34	어청도 Eocheong-Do	36°06'40"	125°59'15"	매일 Daily "	1916. 7
	35	계열비도 Gyeongyeolbi-Do	36°37'15"	125°33'20"	매일 Daily "	1916. 7
	36	목덕도 Mogdeog-Do	36°55'40"	125°45'30"	매일 Daily "	1967. 9
	37	부도 Bu-Do	37°08'40"	126°21'00"	매일 Daily "	1926. 1
	38	선미도 Seonmi-Do	37°17'10"	126°04'45"	매일 Daily "	1967. 7
	39	월미도 Weolmi-Do	37°28'25"	126°36'30"	매일 Daily "	1967. 4
	40	연평도 Yeonpyeong-Do	37°38'55"	125°41'10"	매일 Daily "	1967. 5
	41	소청도 Socheong-Do	37°45'00"	124°44'00"	매일 Daily "	1916. 7

※ 매일 오전 10시 관측, At 10 A.M.

第二編

定線海洋觀測成績

(水温, 塩分, 酸素 및 氣象觀測資料)

PART 2

SECTIONAL OCEANOGRAPHIC DATA

(Temperature, Salinity, Oxygen and Meteorological Data)

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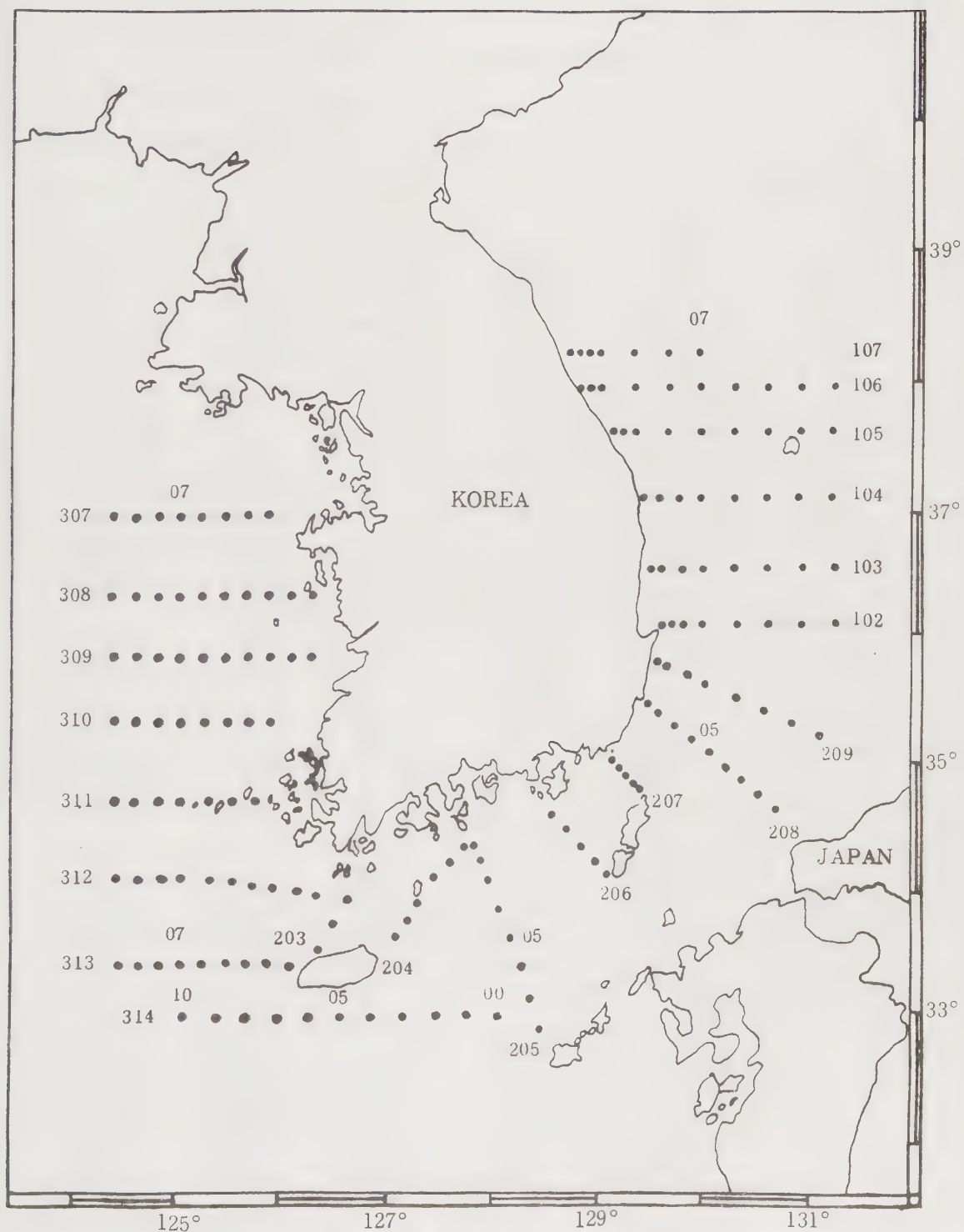
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定線 海洋觀測點 位置圖
Location of the Serial Oceanographic Stations

定線 海洋觀測點 位置表

Position of the Serial Oceanographic Stations

Line \ St. No.	00	01	02	03	04	05
107		38° 12.6' 128° 37.4'	38° 12.6' 128° 42.7'	38° 12.6' 128° 50.6'	38° 12.6' 129° 03.5'	38° 12.6' 129° 22.3'
106			37° 53.7' 128° 52.5'	37° 53.7' 128° 57.2'	37° 53.7' 129° 03.8'	37° 53.7' 129° 22.1'
105				37° 33.2' 129° 10.3'	37° 33.2' 129° 15.5'	37° 33.2' 129° 22.6'
104					37° 03.4' 129° 28.8'	37° 03.4' 129° 33.6'
103					36° 30.3' 129° 30.1'	36° 30.3' 129° 35.4'
102					36° 04.6' 129° 36.9'	36° 04.6' 129° 41.3'
209					35° 47.3' 129° 32.8'	35° 45.4' 129° 38.4'
208		35° 28.5' 129° 27.3'	35° 24.3' 129° 33.8'	35° 17.8' 129° 42.9'	35° 11.1' 129° 52.7'	35° 04.8' 130° 02.0'
207		35° 01.3' 129° 07.2'	34° 57.6' 129° 11.2'	34° 53.9' 129° 15.4'	34° 50.2' 129° 19.5'	34° 48.0' 129° 21.8'
206		34° 35.5' 128° 34.5'	34° 29.6' 128° 41.2'	34° 22.4' 128° 49.7'	34° 15.3' 128° 58.0'	34° 08.1' 129° 06.3'
205		34° 22.3' 127° 48.5'	34° 15.0' 127° 52.1'	34° 06.5' 127° 56.9'	33° 51.5' 128° 03.0'	33° 37.3' 128° 09.2'
204		34° 20.8' 127° 43.9'	34° 13.7' 127° 35.4'	34° 06.7' 127° 26.8'	33° 54.1' 127° 15.2'	33° 45.5' 127° 09.2'
203		33° 56.6' 126° 31.4'	33° 47.5' 126° 26.3'	33° 38.3' 126° 21.3'		
314	33° 00.0' 128° 00.0'	33° 00.0' 127° 42.0'	33° 00.0' 127° 24.0'	33° 00.0' 127° 06.0'	33° 00.0' 126° 48.0'	33° 00.0' 126° 30.0'
313			33° 24.4' 126° 00.0'	33° 24.4' 125° 40.0'	33° 24.4' 125° 36.0'	33° 24.4' 125° 24.0'
312			33° 58.5' 126° 26.0'	33° 59.8' 125° 54.0'	34° 01.3' 125° 42.0'	34° 02.6' 125° 30.0'
311					34° 43.0' 125° 43.9'	34° 43.0' 125° 31.9'
310				35° 20.1' 125° 49.3'	35° 20.1' 125° 36.5'	35° 20.1' 125° 24.4'
309		35° 51.3' 126° 14.7'	35° 51.3' 126° 02.0'	35° 51.3' 125° 49.3'	35° 51.3' 125° 37.0'	35° 51.3' 125° 24.4'
308		36° 19.8' 126° 14.4'	36° 19.8' 126° 02.3'	36° 19.8' 125° 50.0'	36° 19.8' 125° 37.0'	36° 19.8' 125° 25.3'
307				36° 56.5' 126° 00.0'	36° 55.5' 125° 37.7'	36° 55.5' 125° 25.0'

06	07	08	09	10	11
38° 12,6'	38° 12,6'				
129° 41,1'	130° 00,0'				
37° 53,7'	37° 53,7'	37° 53,7'	37° 53,7'	37° 53,7'	37° 53,7'
129° 41,3'	130° 00,0'	130° 18,9'	130° 37,7'	130° 56,5'	131° 15,1'
37° 33,2'	37° 33,2'	37° 33,2'	37° 33,2'	37° 33,2'	37° 33,2'
129° 41,3'	130° 00,0'	130° 18,7'	130° 37,5'	130° 55,9'	131° 14,6'
37° 03,4'	37° 03,4'	37° 03,4'	37° 03,4'	37° 03,4'	37° 03,4'
129° 47,6'	130° 00,0'	130° 18,7'	130° 37,6'	130° 56,4'	131° 15,3'
36° 30,3'	36° 30,3'	36° 30,3'	36° 30,3'	36° 30,3'	36° 30,3'
129° 47,3'	130° 00,0'	130° 18,6'	130° 37,3'	130° 55,6'	131° 14,0'
36° 04,6'	36° 04,6'	36° 04,6'	36° 04,6'	36° 04,6'	36° 04,6'
129° 42,8'	130° 00,0'	130° 18,4'	130° 36,9'	130° 55,1'	131° 13,6'
35° 41,3'	35° 36,8'	35° 30,8'	35° 24,4'	35° 17,8'	35° 11,4'
129° 49,0'	130° 00,0'	130° 16,9'	130° 33,5'	130° 50,0'	131° 06,6'
34° 58,2'	34° 52,6'	34° 45,3'	34° 38,9'		
130° 11,9'	130° 20,9'	130° 30,6'	130° 40,5'		

33° 23,8'	33° 09,7'	32° 55,9'
128° 14,3'	128° 21,3'	128° 27,0'
33° 35,8'		
128° 03,2'		

33° 00,0'	33° 00,0'	33° 00,0'	33° 00,0'	33° 00,0'
126° 12,0'	125° 54,0'	125° 36,0'	125° 18,0'	125° 00,0'
33° 24,4'	33° 24,4'	33° 24,4'	33° 24,4'	33° 24,4'
125° 12,0'	125° 00,0'	124° 48,0'	124° 36,0'	124° 24,0'

34° 04,1'	34° 05,5'	34° 05,5'	34° 05,5'	34° 05,5'
125° 18,0'	125° 00,0'	124° 48,0'	124° 36,0'	124° 24,0'
34° 43,0'	34° 43,0'	34° 43,0'	34° 43,0'	34° 43,0'
125° 19,4'	125° 00,0'	124° 47,9'	124° 35,8'	124° 23,4'
35° 20,1'	35° 20,1'	35° 20,1'	35° 20,1'	35° 20,1'
125° 12,1'	125° 00,0'	124° 47,9'	124° 35,6'	124° 23,5'
35° 51,3'	35° 51,3'	35° 51,3'	35° 51,3'	35° 51,3'
125° 12,3'	125° 00,0'	124° 47,8'	124° 35,1'	124° 22,8'
36° 19,8'	36° 19,8'	36° 19,8'	36° 19,8'	36° 19,8'
125° 12,4'	125° 00,0'	124° 47,5'	124° 35,1'	124° 23,0'
36° 55,5'	36° 55,5'	36° 55,5'	36° 55,5'	36° 55,5'
125° 12,5'	125° 00,0'	124° 47,5'	124° 34,8'	124° 22,3'

St. No. Line	12	13	14	15	16	17
107						
106	37° 53.7'	37° 53.7'	37° 53.7'	37° 53.7'	37° 53.7'	
	131° 34.7'	131° 53.0'	132° 12.2'	132° 30.9'	132° 49.6'	
105	37° 33.2'	37° 33.2'	37° 33.2'	37° 33.2'	37° 33.2'	
	131° 33.8'	131° 52.2'	132° 11.2'	132° 29.8'	132° 48.4'	
104	37° 03.4'	37° 03.4'	37° 03.4'	37° 03.4'	37° 03.4'	
	131° 33.8'	131° 52.6'	132° 11.6'	132° 29.5'	132° 47.6'	
103						
102						
209						
208						
207						
206						
205						
204						
203						
314						
313						
312						
311						
310						
309						
308						
307						

東 海 海 洋 調 查 成 績

OCEANOGRAPHIC DATA : EASTERN WATERS

1 9 8 2

107線 海洋觀測 成績

Oceanographic Data. Line 107

OBSERVED																		INTERPOLATED					CALCULATED			
DEPTH		TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY								

2月(February)

KOREA ,CHUN MA SAN , STATION 107-01 , 38-12.6. N, 128-37.4. E, FEB.15.1982, 07:50 KST, DEPTH 90 , COLOR 4, TRANS. 15.0, WAVE NW 2, SWELL NW 1, WIND NW 1, BARO 1020. , AIR TEMP. DRY 6.5, WET , CLOUD. TYPE CI, AMT 04, WEATHER BC,																	
0	4.61	34.050	*****							0	4.61	34.050	*****	26.98	108	107	0.0000
10	4.51	34.060	*****							10	4.51	34.060	*****	27.00	106	106	0.0106
20	4.35	34.050	*****							20	4.35	34.050	*****	27.01	105	105	0.0212
30	4.07	34.030	*****							30	4.07	34.030	*****	27.03	104	104	0.0317
50	3.42	34.000	*****							50	3.42	34.000	*****	27.07	100	100	0.0521
75	2.56	34.000	*****							75	2.56	34.000	*****	27.14	092	093	0.0763
KOREA ,CHUN MA SAN , STATION 107-02 , 38-12.6. N, 128-42.7. E, FEB.15.1982, 08:50 KST, DEPTH 850 , COLOR 4, TRANS. 15.0, WAVE , SWELL NW 1, WIND NW 1, BARO 1020. , AIR TEMP. DRY 6.5, WET , CLOUD. TYPE CI, AMT 02, WEATHER B ,																	
0	4.70	34.010	*****							0	4.70	34.010	*****	26.94	112	111	0.0000
10	4.62	34.020	*****							10	4.62	34.020	*****	26.96	110	110	0.0110
20	4.42	34.010	*****							20	4.42	34.010	*****	26.97	109	109	0.0220
30	4.18	34.030	*****							30	4.18	34.030	*****	27.01	105	105	0.0327
50	3.84	33.990	*****							50	3.84	33.990	*****	27.02	104	105	0.0537
75	3.61	33.980	*****							75	3.61	33.980	*****	27.03	103	103	0.0798
98	3.20	34.000	*****							100	3.16	34.000	*****	27.09	097	098	0.1051
122	2.75	*****	*****							125	2.74	34.011	*****	27.14	093	093	0.1291
145	2.71	34.020	*****							150	2.70	34.021	*****	27.15	092	093	0.1525
192	2.66	34.030	*****							200	2.63	34.024	*****	27.16	091	092	0.1989
238	2.50	34.000	*****							250	2.48	34.000	*****	27.15	092	093	0.2453

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

286 2.42 34.000 *****
 383 0.88 34.050 *****
 479 0.73 34.050 *****

KOREA : CHUN MA SAN . STATION 107-03 , 38-12.6. N, 129-50.6. E. FEB.15.1982, 10:20 KST, DEPTH 1120 , COLOR 4, TRANS. 18.5.
 WAVE NE 1, SWELL NE 1, WIND NE 1, BARO 1020. , AIR TEMP. DRY 5.8, WET , CLOUD. TYPE CI, AMT 01, WEATHER B ,

0	4.20	34.000	*****							0	4.20	34.000	*****	26.99	107	107	0.0000
10	4.02	34.020	*****							10	4.02	34.020	*****	27.02	104	104	0.0105
20	4.00	34.020	*****							20	4.00	34.020	*****	27.02	104	104	0.0209
30	3.68	34.000	*****							30	3.68	34.000	*****	27.04	102	102	0.0313
50	3.13	34.000	*****							50	3.13	34.000	*****	27.09	097	097	0.0513
75	3.10	34.000	*****							75	3.10	34.000	*****	27.10	097	097	0.0757
99	2.77	34.000	*****							100	2.74	34.000	*****	27.13	094	094	0.0998
124	2.02	34.020	*****							125	2.00	34.020	*****	27.20	087	087	0.1225
148	1.72	34.030	*****							150	1.71	34.030	*****	27.23	084	084	0.1440
197	1.53	34.030	*****							200	1.50	34.031	*****	27.25	082	083	0.1858
245	1.12	34.050	*****							250	1.11	34.047	*****	27.29	079	077	0.2264
291	1.08	34.030	*****							300	1.06	34.029	*****	27.28	080	080	0.2662
388	0.87	34.020	*****							400	0.83	34.021	*****	27.29	079	079	0.3460
484	0.56	34.030	*****														

KOREA : CHUN MA SAN . STATION 107-04 , 38-12.6. N, 129-03.5. E. FEB.15.1982, 12:30 KST, DEPTH 1296 , COLOR 3, TRANS. 19.0.
 WAVE NE 2, SWELL NE 1, WIND NE 2, BARO 1020. , AIR TEMP. DRY 5.5, WET , CLOUD. TYPE CI, AMT 01, WEATHER B ,

0	7.73	34.300	*****							0	7.73	34.300	*****	26.78	127	127	0.0000
10	5.58	34.140	*****							10	5.58	34.140	*****	26.94	111	111	0.0119
20	4.99	34.130	*****							20	4.99	34.130	*****	27.00	106	106	0.0228

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
30	4.93	34.060	*****							30	4.93	34.060	*****	26.96	110	110	0.0336
50	4.74	34.040	*****							50	4.74	34.040	*****	26.96	110	110	0.0557
75	4.64	34.030	*****							75	4.64	34.030	*****	26.96	109	110	0.0833
98	3.51	34.010	*****							100	3.36	34.011	*****	27.08	098	099	0.1095
122	1.75	34.030	*****							125	1.74	34.030	*****	27.23	084	084	0.1325
147	1.74	34.030	*****							150	1.69	34.030	*****	27.24	084	084	0.1537
195	1.07	34.040	*****							200	1.06	34.038	*****	27.29	079	079	0.1946
243	1.05	34.030	*****							250	0.99	34.030	*****	27.28	079	079	0.2344
290	0.71	34.030	*****							300	0.70	34.028	*****	27.30	078	077	0.2738
388	0.65	34.020	*****							400	0.62	34.020	*****	27.30	078	078	0.3517
485	0.44	34.020	*****														

KOREA .CHUN MA SAN . STATION 107-05 . 38-12.6. N. 129-22.3. E. FEB.15.1982. 15:20 KST. DEPTH 1080 . COLOR 4. TRANS. 18.0.

WAVE NE 3, SWELL NE 2, WIND NE 3, BARO 1017. , AIR TEMP. DRY 5.0, WET , CLOUD. TYPE , AMT 01, WEATHER B ,

0	5.30	34.110	*****							0	5.30	34.110	*****	26.95	111	110	0.0000
10	4.92	34.090	*****							10	4.92	34.090	*****	26.98	108	108	0.0109
20	4.80	34.090	*****							20	4.80	34.090	*****	26.99	107	106	0.0217
30	4.75	34.060	*****							30	4.75	34.060	*****	26.98	108	108	0.0324
50	4.25	34.060	*****							50	4.25	34.060	*****	27.03	103	103	0.0537
75	3.56	34.020	*****							75	3.56	34.020	*****	27.07	100	100	0.0792
96	3.15	34.000	*****							100	3.03	34.000	*****	27.10	096	097	0.1039
120	2.43	34.000	*****							125	2.35	34.002	*****	27.16	091	091	0.1275
143	2.10	34.010	*****							150	1.99	34.012	*****	27.20	087	087	0.1499
191	1.36	34.030	*****							200	1.36	34.030	*****	27.26	081	082	0.1924
238	1.36	34.030	*****							250	1.30	34.024	*****	27.26	081	082	0.2335

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

285 1.14 34.010 *****
381 0.84 34.030 *****
479 0.49 34.010 *****

KOREA ,CHUN MA SAN , STATION 107-06 , 38-12.6. N, 129-41.1. E, FEB.15.1982, 18:20 KST, DEPTH 882 , COLOR , TRANS.
WAVE NE 2, SWELL NE 1, WIND NE 2, BARO 1017. , AIR TEMP. DRY 4.8, WET , CLOUD. TYPE , AMT 01, WEATHER B ,
0 6.67 34.240 ***** 0 6.67 34.240 ***** 26.88 117 117 0.0000
10 6.70 34.240 ***** 10 6.70 34.240 ***** 26.88 118 117 0.0117
20 6.53 34.230 ***** 20 6.53 34.230 ***** 26.89 116 116 0.0235
30 6.01 34.240 ***** 30 6.01 34.240 ***** 26.97 109 109 0.0348
50 5.83 34.160 ***** 50 5.83 34.160 ***** 26.93 113 113 0.0571
75 4.32 34.050 ***** 75 4.32 34.050 ***** 27.01 105 105 0.0845
98 3.74 34.000 ***** 100 3.65 34.000 ***** 27.04 102 102 0.1106
123 2.70 34.000 ***** 125 2.65 34.001 ***** 27.14 093 093 0.1352
145 2.22 34.020 ***** 150 2.16 34.021 ***** 27.19 088 088 0.1580
193 1.70 34.030 ***** 200 1.68 34.025 ***** 27.23 084 084 0.2014
240 1.62 34.000 ***** 250 1.59 34.002 ***** 27.22 085 086 0.2441
287 1.51 34.010 ***** 300 1.42 34.012 ***** 27.24 083 084 0.2866
384 0.85 34.030 ***** 400 0.80 34.026 ***** 27.29 078 078 0.3680
480 0.59 34.010 *****

KOREA ,CHUN MA SAN , STATION 107-07 , 38-12.6. N, 130-00.0. E, FEB.15.1982, 21:10 KST, DEPTH 846 , COLOR , TRANS.
WAVE NE 3, SWELL NE 1, WIND NE 3, BARO 1017. , AIR TEMP. DRY 4.8, WET , CLOUD. TYPE , AMT 03, WEATHER BC,
0 6.48 34.230 ***** 0 6.48 34.230 ***** 26.90 116 115 0.0000
10 6.51 34.170 ***** 10 6.51 34.170 ***** 26.85 120 120 0.0118
20 6.45 34.130 ***** 20 6.45 34.130 ***** 26.82 123 123 0.0240

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
30	6.31	34.150	*****							30	6.31	34.150	*****	26.86	119	120	0.0361
50	6.10	34.130	*****							50	6.10	34.130	*****	26.87	118	119	0.0601
75	6.08	34.120	*****							75	6.08	34.120	*****	26.86	119	120	0.0900
98	5.95	34.150	*****							100	5.85	34.143	*****	26.91	114	115	0.1195
123	4.70	34.070	*****							125	4.67	34.069	*****	26.99	107	108	0.1475
147	4.41	34.060	*****							150	4.28	34.057	*****	27.02	104	105	0.1742
196	2.35	34.020	*****							200	2.27	34.020	*****	27.18	089	089	0.2230
243	1.46	34.020	*****							250	1.40	34.021	*****	27.25	082	083	0.2662
291	1.08	*****	*****							300	1.05	34.030	*****	27.28	079	080	0.3070
388	0.85	34.050	*****							400	0.80	34.047	*****	27.31	077	077	0.3856
484	0.50	34.030	*****														

4月(April)

KOREA ,CHUN MA SAN , STATION 107-01 , 38-12.6. N, 128-37.4. E, APR. 7.1982, 07:50 KST, DEPTH 90 , COLOR 5, TRANS. 9.0,

WAVE W 1, SWELL W 1, WIND W 1, BARO 1006. , AIR TEMP. DRY 14.1, WET , CLOUD. TYPE CI, AMT 01, WEATHER B ,

0	12.24	34.398	*****							0	12.24	34.398	*****	26.09	192	192	0.0000
10	11.18	34.392	*****							10	11.18	34.392	*****	26.28	174	174	0.0183
20	7.52	34.288	*****							20	7.52	34.288	*****	26.80	125	125	0.0333
30	5.92	34.208	*****							30	5.92	34.208	*****	26.95	110	110	0.0451
50	2.38	34.080	*****							50	2.38	34.080	*****	27.22	085	085	0.0647
75	1.73	34.063	*****							75	1.73	34.063	*****	27.26	081	081	0.0857

KOREA ,CHUN MA SAN , STATION 107-02 , 38-12.6. N, 128-42.7. E, APR. 7.1982, 09:20 KST, DEPTH 855 , COLOR 4, TRANS. 15.5,

WAVE NE 1, SWELL NE 1, WIND NE 1, BARO 1005.5, AIR TEMP. DRY 14.7, WET , CLOUD. TYPE CI, AMT 01, WEATHER B ,

0	11.88	34.442	*****							0	11.88	34.442	*****	26.19	183	182	0.0000
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OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
10	10.66	34.429	*****							10	10.66	34.429	*****	26.41	162	162	0.0172
20	9.69	34.385	*****							20	9.69	34.385	*****	26.54	150	150	0.0729
30	5.13	34.186	*****							30	5.13	34.186	*****	27.03	103	103	0.0456
50	3.32	34.061	*****							50	3.32	34.061	*****	27.12	094	094	0.0654
75	2.51	34.043	*****							75	2.51	34.043	*****	27.18	089	089	0.0884
98	1.87	34.053	*****							100	1.86	34.052	*****	27.24	083	083	0.1101
122	1.84	34.045	*****							125	1.82	34.046	*****	27.24	083	083	0.1310
146	1.68	34.058	*****							150	1.66	34.059	*****	27.26	081	081	0.1518
195	1.52	34.071	*****							200	1.47	34.072	*****	27.28	079	079	0.1922
243	1.06	34.081	*****							250	0.98	34.078	*****	27.32	075	075	0.2311
289	0.56	34.063	*****							300	0.55	34.062	*****	27.34	074	074	0.2687
384	0.55	34.062	*****							400	0.52	34.062	*****	27.34	074	074	0.3429
479	0.38	34.066	*****														

KOREA - CHUN MA SAN , STATION 107-03 , 38-12.6. N, 128-50.6. E, APR. 7.1982, 11:10 KST, DEPTH 1120 , COLOR 4, TRANS. 17.5,
 WAVE NE 1, SWELL NE 1, WIND NE 1, BARO 1004. , AIR TEMP. DRY 15.9, WET , CLOUD. TYPE CI, AMT 01, WEATHER B ,

0	11.14	34.406	*****							0	11.14	34.406	*****	26.30	172	172	0.0000
10	10.61	34.424	*****							10	10.61	34.424	*****	26.41	162	162	0.0167
20	10.51	34.406	*****							20	10.51	34.406	*****	26.41	162	162	0.0329
30	7.01	34.249	*****							30	7.01	34.249	*****	26.84	121	121	0.0471
50	3.92	34.109	*****							50	3.92	34.109	*****	27.10	096	096	0.0689
75	3.50	34.141	*****							75	3.50	34.141	*****	27.17	090	090	0.0924
99	3.23	34.042	*****							100	3.19	34.042	*****	27.12	095	095	0.1156
120	2.44	34.052	*****							125	2.40	34.053	*****	27.20	087	087	0.1386
142	2.30	34.059	*****							150	2.27	34.059	*****	27.21	086	086	0.1604

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY
189	2.18	*****	*****							200	2.09	34.062	*****	27.23	084	085	0.2033
236	1.83	34.066	*****							250	1.68	34.063	*****	27.26	081	082	0.2451
282	1.35	34.059	*****							300	1.26	34.061	*****	27.29	078	079	0.2854
379	0.87	34.071	*****							400	0.76	34.071	*****	27.33	075	075	0.3626
475	0.40	34.072	*****														
KOREA ,CHUN MA SAN , STATION 107-04 , 38-12.6. N, 129-03.5. E, APR. 7.1982, 13:30 KST, DEPTH 1236 , COLOR 4, TRANS. 16.0,																	
WAVE NE 1, SWELL NE 1, WIND NE 1, BARO 1006. , AIR TEMP. DRY 15.9, WET , CLOUD. TYPE CI, AMT 02, WEATHER B .																	
0	11.49	34.400	*****							0	11.49	34.400	*****	26.23	179	178	0.0000
10	10.63	34.420	*****							10	10.63	34.420	*****	26.40	162	162	0.0170
20	10.34	34.410	*****							20	10.34	34.410	*****	26.45	158	159	0.0331
30	9.09	34.400	*****							30	9.09	34.400	*****	26.65	139	140	0.0481
50	5.55	34.180	*****							50	5.55	34.180	*****	26.98	108	108	0.0730
75	4.67	34.120	*****							75	4.67	34.120	*****	27.03	103	103	0.0996
99	3.24	34.060	*****							100	3.19	34.059	*****	27.13	093	094	0.1244
122	2.13	34.050	*****							125	2.08	34.053	*****	27.22	085	085	0.1468
141	1.86	*****	*****							150	1.79	34.084	*****	27.27	080	080	0.1676
186	1.52	34.130	*****							200	1.46	34.119	*****	27.32	075	076	0.2068
280	1.12	34.060	*****							250	1.24	34.082	*****	27.31	077	077	0.2452
289	0.89	34.070	*****							300	0.84	34.068	*****	27.32	075	075	0.2835
373	0.53	34.060	*****							400	0.49	34.062	*****	27.34	074	073	0.3584
468	0.39	34.070	*****														
KOREA ,CHUN MA SAN , STATION 107-05 , 38-12.6. N, 129-22.3. E, APR. 7.1982, 16:20 KST, DEPTH 1080 , COLOR 4, TRANS. 16.0,																	
WAVE SE 1, SWELL SE 1, WIND SE 1, BARO 1000.5, AIR TEMP. DRY 13.8, WET , CLOUD. TYPE CI, AMT 01, WEATHER B .																	
0	12.73	34.447	*****							0	12.73	34.447	*****	26.03	198	198	0.0000

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
10	11.05	34.487	*****							10	11.05	34.487	*****	26.38	165	165	0.0181
20	9.43	34.359	*****							20	9.43	34.359	*****	26.56	148	148	0.0338
30	8.12	34.309	*****							30	8.12	34.309	*****	26.73	132	132	0.0478
50	8.02	34.299	*****							50	8.02	34.299	*****	26.74	131	131	0.0742
74	7.03	34.249	*****							75	7.00	34.247	*****	26.84	121	122	0.1061
98	6.46	34.219	*****							100	6.36	34.213	*****	26.90	115	116	0.1360
111	5.81	34.180	*****							125	5.20	34.153	*****	27.00	106	107	0.1641
129	5.03	34.146	*****							150	4.61	34.126	*****	27.10	097	098	0.1898
172	4.18	34.249	*****							200	3.49	34.197	*****	27.22	086	087	0.2362
212	3.20	34.176	*****							250	2.34	34.139	*****	27.27	080	081	0.2785
258	2.17	34.132	*****							300	1.69	34.114	*****	27.30	077	078	0.3185
341	1.24	34.097	*****							400	0.82	34.084	*****	27.34	074	074	0.3950
434	0.59	34.077	*****														

KOREA ,CHUN MA SAN , STATION 107-06 , 38-12.6. N, 129-41.1. E, APR. 7:1982, 19:20 KST, DEPTH 882 , COLOR , TRANS.

WAVE SE 1, SWELL SE 1, WIND SE 1, BARD 1001. , AIR TEMP. DRY 12.2, WET , CLOUD. TYPE C1, AMT 02, WEATHER B .

0	10.82	34.383	*****							0	10.82	34.383	*****	26.34	168	168	0.0000
10	9.59	34.372	*****							10	9.59	34.372	*****	26.55	149	149	0.0159
20	8.92	34.340	*****							20	8.92	34.340	*****	26.63	141	141	0.0304
30	8.54	34.336	*****							30	8.54	34.336	*****	26.69	136	136	0.0443
50	7.32	34.277	*****							50	7.32	34.277	*****	26.82	123	123	0.0704
74	6.41	34.198	*****							75	6.37	34.194	*****	26.89	117	118	0.1006
98	5.54	34.116	*****							100	5.46	34.109	*****	26.93	112	113	0.1296
114	4.92	34.065	*****							125	4.47	34.052	*****	27.00	106	107	0.1573
134	4.11	34.043	*****							150	3.59	34.053	*****	27.09	097	098	0.1831

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

182	2.56	34.073	*****							200	2.23	34.070	*****	27.23	085	085	0.2291
225	1.78	34.067	*****							250	1.59	34.108	*****	27.31	077	077	0.2700
261	1.51	34.127	*****							300	1.32	34.108	*****	27.32	075	076	0.3086
356	1.07	34.081	*****							400	0.84	34.072	*****	27.33	075	075	0.3844
453	0.58	34.062	*****														

KOREA ; CHUN MA SAN ; STATION 107-07 , 38-12.6. N, 130-00.0. E, APR. 7.1982, 22:10 KST, DEPTH 846 , COLOR , TRANS. ,

WAVE SE	2, SWELL SE	1, WIND SE	2, BARO 1001. , AIR TEMP. DRY	11.9, WET													
0	11.55	34.415	*****							0	11.55	34.415	*****	26.23	179	178	0.0000
10	10.34	34.422	*****							10	10.34	34.422	*****	26.46	158	157	0.0168
20	9.84	34.434	*****							20	9.84	34.434	*****	26.55	148	149	0.0321
30	8.87	34.334	*****							30	8.87	34.334	*****	26.63	141	141	0.0467
50	5.73	34.172	*****							50	5.73	34.172	*****	26.95	111	111	0.0720
75	4.35	34.103	*****							75	4.35	34.103	*****	27.05	101	101	0.0987
99	2.37	*****	*****							100	2.36	34.068	*****	27.21	086	086	0.1222
123	2.36	34.037	*****							125	2.32	34.037	*****	27.19	088	088	0.1441
146	1.98	34.045	*****							150	1.92	34.047	*****	27.23	084	084	0.1658
194	1.32	34.073	*****							200	1.27	34.073	*****	27.30	078	078	0.2065
242	0.99	34.073	*****							250	0.93	34.069	*****	27.32	076	076	0.2451
289	0.66	34.054	*****							300	0.64	34.054	*****	27.32	075	075	0.2831
384	0.57	34.054	*****							400	0.53	34.057	*****	27.33	074	074	0.3582
480	0.34	34.072	*****														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

6月(June)

KOREA CHUN MA SAN STATION 107-01 38-12.6. N, 128-37.4. E, JUN. 5.1982, 06:20 KST, DEPTH 90 , COLOR 4, TRANS.

WAVE NE 1, SWELL NE 1, WIND NE 1, BARD 1009.5, AIR TEMP. DRY 19.8, WET , CLOUD. TYPE CI, AMT 01, WEATHER B ,

0	13.19	33.990	*****							0	13.19	33.990	*****	25.59	240	240	0.0000
10	9.09	34.085	*****							10	9.09	34.085	*****	26.40	163	163	0.0201
20	5.97	34.083	*****							20	5.97	34.083	*****	26.85	120	120	0.0343
30	4.29	34.096	*****							30	4.29	34.096	*****	27.05	101	101	0.0454
50	3.00	34.105	*****							50	3.00	34.105	*****	27.19	088	088	0.0644
75	2.61	34.100	*****							75	2.61	34.100	*****	27.22	085	085	0.0862

KOREA CHUN MA SAN STATION 107-02 38-12.6. N, 128-42.7. E, JUN. 5.1982, 07:30 KST, DEPTH 850 , COLOR 4, TRANS. 13.5,

WAVE N 3, SWELL N 1, WIND N 3, BARD 1009.5, AIR TEMP. DRY 19.5, WET , CLOUD. TYPE CI, AMT 01, WEATHER B ,

0	14.21	34.109	*****							0	14.21	34.109	*****	25.47	251	251	0.0000
10	13.57	34.066	*****							10	13.57	34.066	*****	25.57	242	242	0.0246
20	8.65	34.089	*****							20	8.65	34.089	*****	26.48	156	156	0.0446
30	6.34	34.143	*****							30	6.34	34.143	*****	26.85	120	120	0.0584
51	3.34	34.204	*****							50	3.48	34.201	*****	27.22	085	085	0.0791
77	2.72	34.204	*****							75	2.76	34.204	*****	27.29	079	079	0.0997
100	2.07	34.097	*****							100	2.07	34.097	*****	27.26	081	081	0.1199
138	1.84	34.102	*****							125	1.91	34.100	*****	27.27	080	080	0.1402
164	1.56	34.106	*****							150	1.71	34.103	*****	27.29	078	078	0.1602
210	1.47	34.102	*****							200	1.48	34.102	*****	27.31	077	077	0.1993
257	1.46	34.102	*****							250	1.46	34.102	*****	27.31	077	077	0.2380
305	1.07	34.126	*****							300	1.11	34.123	*****	27.35	073	073	0.2757
395	0.85	34.103	*****							400	0.83	34.103	*****	27.35	073	073	0.3491
487	0.52	34.105	*****														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA ,CHUN MA SAN , STATION 107-03 , 38-12.6. N, 128-50.6. E, JUN. 5.1982, 09:10 KST, DEPTH 1120 , COLOR 4, TRANS. 14.0,
 WAVE N 3, SWELL N 1, WIND N 3, BARO 1010. , AIR TEMP. DRY 19.0, WET , CLOUD. TYPE CI, AMT 03, WEATHER BC,
 0 14.70 34.054 ***** 0 14.70 34.054 ***** 25.32 265 265 0.0000
 10 14.15 34.062 ***** 10 14.15 34.062 ***** 25.45 254 254 0.0259
 20 8.56 34.137 ***** 20 8.56 34.137 ***** 26.53 151 151 0.0462
 30 5.88 34.211 ***** 30 5.88 34.211 ***** 26.96 110 110 0.0593
 51 3.06 34.112 ***** 50 3.19 34.116 ***** 27.18 089 089 0.0793
 77 2.84 34.102 ***** 75 2.85 34.102 ***** 27.20 087 087 0.1014
 99 1.93 34.138 ***** 100 1.92 34.137 ***** 27.30 077 077 0.1221
 134 1.84 34.113 ***** 125 1.86 34.119 ***** 27.29 078 078 0.1417
 162 1.71 34.113 ***** 150 1.76 34.113 ***** 27.30 078 078 0.1614
 208 1.58 34.117 ***** 200 1.60 34.116 ***** 27.31 077 077 0.2003
 252 1.36 34.117 ***** 250 1.37 34.117 ***** 27.33 075 075 0.2386
 297 1.21 34.122 ***** 300 1.20 34.122 ***** 27.34 073 074 0.2761
 390 0.98 34.122 ***** 400 0.97 34.122 ***** 27.36 072 072 0.3495
 484 0.97 34.128 *****

KOREA ,CHUN MA SAN , STATION 107-04 , 38-12.6. N, 129-03.5. E, JUN. 5.1982, 11:40 KST, DEPTH 1296 , COLOR 3, TRANS. 15.0,
 WAVE N 3, SWELL N 1, WIND N 3, BARO 1010. , AIR TEMP. DRY 22.0, WET , CLOUD. TYPE CI, AMT 03, WEATHER BC,
 0 14.85 34.378 ***** 0 14.85 34.378 ***** 25.09 288 287 0.0000
 10 15.07 34.356 ***** 10 15.07 34.356 ***** 25.47 251 251 0.0269
 20 11.26 34.362 ***** 20 11.26 34.362 ***** 26.25 178 178 0.0484
 30 7.83 34.313 ***** 30 7.83 34.313 ***** 26.78 127 128 0.0637
 50 4.79 34.153 ***** 50 4.79 34.153 ***** 27.04 102 102 0.0867
 75 2.96 34.102 ***** 75 2.96 34.102 ***** 27.19 088 088 0.1106

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D DY
99	2.45	34.095	*****							100	2.43	34.095	*****	27.23	084	084	0.1324
131	1.92	34.102	*****							125	2.01	34.100	*****	27.27	081	081	0.1531
155	1.75	34.117	*****							150	1.78	34.113	*****	27.30	078	078	0.1731
200	1.28	34.111	*****							200	1.28	34.111	*****	27.33	075	075	0.2117
248	0.96	34.116	*****							250	0.95	34.116	*****	27.35	072	072	0.2487
297	0.91	34.122	*****							300	0.90	34.119	*****	27.36	072	072	0.2851
395	0.90	*****	*****							400	0.89	34.022	*****	27.28	079	079	0.3611
491	0.80	33.935	*****														

KOREA ;CHUN MA SAN ; STATION 107-05 , 38-12.6. N, 129-22.3. E, JUN. 5.1982, 14:20 KST, DEPTH 1080 , COLOR 3, TRANS. 17.5,

WAVE SE 1, SWELL SE 1, WIND SE 1, BARO 1009. , AIR TEMP. DRY 23.5, WET , CLOUD. TYPE CI, AMT 02, WEATHER B ,

0	18.62	34.499	*****							0	18.62	34.499	*****	24.75	320	320	0.0000
10	17.39	34.499	*****							10	17.39	34.499	*****	25.05	291	291	0.0305
20	16.58	34.480	*****							20	16.58	34.480	*****	25.23	274	275	0.0589
30	13.98	34.531	*****							30	13.98	34.531	*****	25.84	216	216	0.0835
50	13.19	34.470	*****							50	13.19	34.470	*****	25.96	205	206	0.1258
75	8.11	34.341	*****							75	8.11	34.341	*****	26.76	129	130	0.1679
99	4.74	34.215	*****							100	4.66	34.211	*****	27.11	096	097	0.1964
127	2.63	34.113	*****							125	2.78	34.120	*****	27.22	085	086	0.2193
151	2.51	34.127	*****							150	2.51	34.126	*****	27.25	083	083	0.2405
201	2.31	34.115	*****							200	2.31	34.115	*****	27.26	082	082	0.2821
249	1.39	34.124	*****							250	1.38	34.124	*****	27.33	074	075	0.3217
289	1.06	34.130	*****							300	1.00	34.129	*****	27.36	072	072	0.3585
386	0.59	34.129	*****							400	0.56	34.128	*****	27.39	069	069	0.4294
478	0.45	34.123	*****														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY
KOREA ,CHUN MA SAN , STATION 107-06 , 38-12.6. N, 129-41.1. E, JUN. 5.1982, 17:15 KST, DEPTH 882 , COLOR 3, TRANS. 18.0, WAVE SE 2, SWELL SE 1, WIND SE 2, BARO 1009. , AIR TEMP. DRY 23.8, WET , CLOUD. TYPE CI, AMT 03, WEATHER BC,																	
0	18.28	34.456	*****							0	18.28	34.456	*****	24.80	315	315	0.0000
10	17.22	34.426	*****							10	17.22	34.426	*****	25.04	293	293	0.0304
20	16.19	34.447	*****							20	16.19	34.447	*****	25.29	268	268	0.0585
30	15.02	34.573	*****							30	15.02	34.573	*****	25.65	234	234	0.0837
50	12.28	34.426	*****							50	12.28	34.426	*****	26.10	191	192	0.1264
75	7.52	34.293	*****							75	7.52	34.293	*****	26.80	125	125	0.1662
99	6.86	34.263	*****							100	6.83	34.261	*****	26.88	118	119	0.1969
126	6.10	34.219	*****							125	6.12	34.220	*****	26.94	112	113	0.2260
150	5.81	34.196	*****							150	5.81	34.196	*****	26.96	110	112	0.2543
198	5.23	34.270	*****							200	5.14	34.267	*****	27.10	097	099	0.3072
246	3.22	34.220	*****							250	3.13	34.209	*****	27.26	081	083	0.3528
291	2.26	34.104	*****							300	2.13	34.104	*****	27.26	081	082	0.3943
386	0.95	34.111	*****							400	0.87	34.112	*****	27.36	072	072	0.4721
480	0.47	34.123	*****														
KOREA ,CHUN MA SAN , STATION 107-07 , 38-12.6. N, 130-00.0. E, JUN. 5.1982, 20:00 KST, DEPTH 846 , COLOR , TRANS. , WAVE SE 3, SWELL SE 1, WIND SE 3, BARO 1009. , AIR TEMP. DRY 19.8, WET , CLOUD. TYPE CI, AMT 01, WEATHER B ,																	
0	18.05	34.465	*****							0	18.05	34.465	*****	24.86	309	309	0.0000
10	17.15	34.415	*****							10	17.15	34.415	*****	25.04	292	292	0.0300
20	16.73	34.432	*****							20	16.73	34.432	*****	25.16	281	281	0.0587
30	14.47	34.416	*****							30	14.47	34.416	*****	25.65	234	235	0.0846
54	13.63	34.519	*****							50	13.77	34.501	*****	25.86	214	215	0.1296
78	8.89	34.361	*****							75	9.48	34.380	*****	26.57	147	148	0.1751

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
102	7.94	34.279	*****							100	8.01	34.285	*****	26.73	132	133	0.2104
132	6.07	34.211	*****							125	6.50	34.226	*****	26.89	116	118	0.2419
155	5.49	34.183	*****							150	5.61	34.189	*****	26.98	108	110	0.2705
203	3.81	34.117	*****							200	3.91	34.121	*****	27.11	095	097	0.3223
252	3.11	34.102	*****							250	3.13	34.102	*****	27.17	090	091	0.3695
298	2.47	34.243	*****							300	2.43	34.240	*****	27.34	073	075	0.4111
390	0.98	34.109	*****							400	0.95	34.109	*****	27.35	073	073	0.4854
481	0.79	34.114	*****														

8月(August)

KOREA , CHUN MA SAN , STATION 107-01 , 38-12.6. N, 128-37.4. E, AUG. 8.1982, 11:35 KST, DEPTH 90 , COLOR 4, TRANS. 16.0.
WAVE SE 1, SWELL SE 1, WIND SE 1, BARO 1004.5, AIR TEMP. DRY 27.1, WET , CLOUD. TYPE CI, AMT 03, WEATHER BC.

0	23.19	32.998	*****							0	23.19	32.998	*****	22.38	546	546	0.0000
10	18.70	33.304	*****							10	18.70	33.304	*****	23.82	409	409	0.0477
20	17.32	33.380	*****							20	17.32	33.380	*****	24.21	371	371	0.0868
30	15.38	33.498	*****							30	15.38	33.498	*****	24.75	320	321	0.1214
50	12.88	33.462	*****							50	12.88	33.462	*****	25.24	273	274	0.1810
75	3.65	33.502	*****							75	3.65	33.502	*****	26.65	139	140	0.2328

KOREA , CHUN MA SAN , STATION 107-02 , 38-12.6. N, 128-42.7. E, AUG. 8.1982, 12:35 KST, DEPTH 855 , COLOR 3, TRANS. 20.0.
WAVE SE 1, SWELL SE 1, WIND SE 1, BARO 1004.5, AIR TEMP. DRY 27.1, WET , CLOUD. TYPE CI, AMT 03, WEATHER BC.

0	23.64	33.067	*****							0	23.64	33.067	*****	22.30	553	553	0.0000
10	19.02	33.343	*****							10	19.02	33.343	*****	23.77	413	413	0.0483
20	17.85	33.498	*****							20	17.85	33.498	*****	24.17	375	375	0.0878
30	16.99	33.607	*****							30	16.99	33.607	*****	24.46	347	348	0.1240

OBSERVED									INTERPOLATED				CALCULATED				
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
50	15.60	33.601	*****							50	15.60	33.601	*****	24.78	317	318	0.1907
75	14.29	33.862	*****							75	14.29	33.862	*****	25.26	271	273	0.2647
100	5.49	33.979	*****							100	5.49	33.979	*****	26.83	123	123	0.3143
126	3.64	34.021	*****							125	3.71	34.019	*****	27.05	101	102	0.3426
150	2.41	34.037	*****							150	2.41	34.037	*****	27.19	088	089	0.3665
198	1.79	34.063	*****							200	1.77	34.063	*****	27.26	082	082	0.4095
246	1.35	*****	*****							250	1.30	34.064	*****	27.29	079	079	0.4499
293	0.84	34.066	*****							300	0.82	34.065	*****	27.32	075	075	0.4887
389	0.60	34.063	*****							400	0.57	34.061	*****	27.33	074	074	0.5640
485	0.41	34.046	*****														
KOREA ,CHUN MA SAN , STATION 107-03 , 38-12.6. N, 128-50.6. E, AUG. 8,1982, 14:00 KST, DEPTH 1120 , COLOR 3, TRANS. 22.0, WAVE SE 1, SWELL SE 1, WIND SE 1, BARD 1005. , AIR TEMP. DRY 27.5, WET , CLOUD. TYPE CI, AMT O3, WEATHER BC,																	
0	24.62	33.237	*****							0	24.62	33.237	*****	22.14	569	568	0.0000
10	21.00	33.597	*****							10	21.00	33.597	*****	23.44	444	444	0.0506
20	19.45	34.068	*****							20	19.45	34.068	*****	24.21	371	372	0.0915
30	10.62	34.197	*****							30	10.62	34.197	*****	26.23	179	179	0.1191
50	6.86	34.075	*****							50	6.86	34.075	*****	26.73	132	132	0.1503
75	6.54	33.952	*****							75	6.54	33.952	*****	26.67	137	138	0.1842
100	5.39	33.890	*****							100	5.39	33.890	*****	26.77	128	129	0.2177
126	3.72	34.024	*****							125	3.78	34.018	*****	27.05	102	102	0.2468
150	2.74	34.041	*****							150	2.74	34.041	*****	27.16	091	091	0.2711
199	1.57	33.953	*****							200	1.56	33.954	*****	27.18	089	089	0.3164
247	1.19	34.027	*****							250	1.16	34.029	*****	27.27	080	080	0.3589
295	0.66	34.059	*****							300	0.84	34.059	*****	27.32	076	076	0.3983

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

302 0.48 34.063 *****
 489 0.46 34.117 *****

KOREA : CHUN MA SAN ; STATION 107-04 , 38-12.6, N, 129-03.5, E, AUG. 8, 1982, 16:10 KST, DEPTH 1296 , COLOR 3, TRANS. 23.0,
 WAVE SE 1, SWELL SE 1, WIND SE 1, BARO 1005. ; AIR TEMP. DRY 28.2, WET , CLOUD. TYPE CI, AMT O2, WEATHER B ,
 0 25.29 33.709 ***** 0 25.29 33.709 ***** 22.30 554 554 0.0000
 10 20.85 34.089 ***** 10 20.85 34.089 ***** 23.86 405 405 0.0479
 20 18.44 34.122 ***** 20 18.44 34.122 ***** 24.51 343 343 0.0854
 30 18.14 ***** 30 18.14 34.122 ***** 24.58 336 337 0.1194
 50 8.34 34.123 ***** 50 8.34 34.123 ***** 26.55 149 149 0.1681
 75 6.79 34.060 ***** 75 6.79 34.060 ***** 26.72 132 133 0.2035
 98 4.18 34.100 ***** 100 4.08 34.098 ***** 27.08 099 099 0.2327
 128 2.78 34.070 ***** 125 2.92 34.073 ***** 27.17 090 090 0.2565
 152 2.10 34.063 ***** 150 2.15 34.063 ***** 27.23 085 085 0.2785
 200 1.30 34.082 ***** 200 1.30 34.082 ***** 27.30 077 077 0.3193
 247 1.04 34.065 ***** 250 1.01 34.064 ***** 27.31 077 077 0.3580
 295 0.71 34.049 ***** 300 0.69 34.049 ***** 27.32 076 076 0.3964
 391 0.47 34.066 ***** 400 0.46 34.065 ***** 27.34 073 073 0.4713
 487 0.26 34.061 *****

KOREA : CHUN MA SAN ; STATION 107-05 , 38-12.6, N, 129-22.3, E, AUG. 10, 1982, 12:30 KST, DEPTH 1080 , COLOR 3, TRANS. 20.5,
 WAVE NE 1, SWELL NE 1, WIND NE 1, BARO 1004. ; AIR TEMP. DRY 28.5, WET , CLOUD. TYPE CI, AMT O1, WEATHER B ,
 0 25.98 33.970 ***** 0 25.98 33.970 ***** 22.28 556 555 0.0000
 10 23.09 34.001 ***** 10 23.09 34.001 ***** 23.17 471 471 0.0513
 20 16.91 34.024 ***** 20 16.91 34.024 ***** 24.80 315 315 0.0906
 30 12.49 34.140 ***** 30 12.49 34.140 ***** 25.84 216 216 0.1173

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
50	6.44	34.062	*****							50	6.44	34.062	*****	26.77	128	128	0.1518
75	3.34	34.033	*****							75	3.34	34.033	*****	27.10	097	097	0.1800
100	3.10	34.050	*****							100	3.10	34.050	*****	27.14	093	094	0.2040
130	3.01	34.054	*****							125	3.02	34.053	*****	27.14	092	093	0.2274
154	2.32	34.050	*****							150	2.43	34.050	*****	27.19	088	088	0.2501
203	1.43	34.063	*****							200	1.48	34.062	*****	27.28	080	080	0.2924
252	0.91	34.067	*****							250	0.93	34.066	*****	27.32	076	076	0.3316
301	0.58	34.061	*****							300	0.58	34.061	*****	27.33	074	074	0.3694
399	0.46	34.081	*****							400	0.45	34.080	*****	27.36	072	072	0.4429
497	0.34	34.060	*****														

KOREA , CHUN MA SAN , STATION 107-06 , 38-12.6. N, 129-41.1. E, AUG.10.1982, 15:10 KST, DEPTH 882 , COLOR 3, TRANS. 22.0,

WAVE NE 1, SWELL NE 1, WIND NE 1, BARO 1004. , AIR TEMP. DRY 29.5, WET , CLOUD. TYPE CI, AMT 01, WEATHER B ,

0	25.32	33.734	****							0	25.32	33.734	****	22.31	553	553	0.0000
10	23.71	33.925	****							10	23.71	33.925	****	22.93	493	493	0.0523
20	23.30	34.080	****							20	23.30	34.080	****	23.17	471	471	0.1006
30	14.12	34.087	****							30	14.12	34.087	****	25.47	251	252	0.1368
50	7.74	34.205	****							50	7.74	34.205	****	26.70	134	135	0.1755
75	7.19	34.191	****							75	7.19	34.191	****	26.77	128	129	0.2085
98	6.33	34.091	****							100	6.12	34.088	****	26.83	122	123	0.2401
131	3.02	34.047	****							125	3.62	34.055	****	27.09	097	098	0.2678
155	2.28	34.088	****							150	2.43	34.079	****	27.22	085	086	0.2910
204	2.01	34.087	****							200	2.03	34.087	****	27.26	082	082	0.3332
252	1.36	34.053	****							250	1.38	34.054	****	27.28	080	080	0.3741
300	0.91	34.066	****							300	0.91	34.066	****	27.32	076	076	0.4133

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

397	0.56	34.063	*****							400	0.55	34.062	*****	27.34	074	074	0.4887
494	0.45	34.054	*****														
KOREA ,CHUN MA SAN , STATION 107-07 ; 38-12.6. N, 130-00.0. E, AUG.10.1982, 18:00 KST, DEPTH 846 , COLOR 3, TRANS. 20.0.																	
WAVE S 1, SWELL S 1, WIND S 1, BARO 1004. , AIR TEMP. DRY 29.1, WET , CLOUD. TYPE CI, AMT 02, WEATHER B ,																	
0	27.10	33.528	*****							0	27.10	33.528	*****	21.60	621	621	0.0000
10	23.79	33.640	*****							10	23.79	33.640	*****	22.69	516	516	0.0569
20	23.16	33.986	*****							20	23.16	33.986	*****	23.14	474	474	0.1064
30	17.14	33.890	*****							30	17.14	33.890	*****	24.64	330	330	0.1467
50	13.27	34.026	*****							50	12.29	34.026	*****	25.79	221	222	0.2020
75	8.07	34.080	*****							75	8.07	34.080	*****	26.56	148	149	0.2484
99	4.77	34.102	*****							100	4.68	34.100	*****	27.01	105	105	0.2803
134	1.86	34.045	*****							125	2.60	34.059	*****	27.19	088	089	0.3047
158	1.60	34.049	*****							150	1.68	34.047	*****	27.25	082	082	0.3262
206	1.14	34.056	*****							200	1.19	34.055	*****	27.29	079	079	0.3667
253	1.02	34.053	*****							250	1.02	34.053	*****	27.30	078	078	0.4060
299	0.67	34.061	*****							300	0.66	34.061	*****	27.33	075	075	0.4444
395	0.53	34.061	*****							400	0.52	34.061	*****	27.34	074	074	0.5191
490	0.39	34.074	*****														

10月(October)

KOREA ,CHUN MA SAN , STATION 107-01 ; 38-12.6. N, 128-37.4. E, OCT. 6.1982, 08:00 KST, DEPTH 90 , COLOR 4, TRANS. 19.0,																	
WAVE SW 1, SWELL SW 1, WIND SW 1, BARO 1013. , AIR TEMP. DRY 21.6, WET , CLOUD. TYPE CI, AMT 01, WEATHER B ,																	
0	20.91	33.064	*****							0	20.91	33.064	*****	23.06	481	480	0.0000
10	20.25	33.196	5.49							10	20.25	33.196	5.49	23.34	454	454	0.0467

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY

20	11.94	34.190	5.26							20	11.94	34.190	5.26	25.99	202	202	0.0796
30	9.99	34.342	5.30							30	9.99	34.342	5.30	26.46	158	158	0.0977
50	4.88	34.116	6.25							50	4.88	34.116	6.25	27.01	105	106	0.1242
75	1.90	34.109	6.25							75	1.90	34.109	6.25	27.28	079	079	0.1474

KOREA ,CHUN MA SAN , STATION 107-02 , 38-12.6. N, 128-42.7. E. OCT. 6.1982, 09:10 KST, DEPTH 855 , COLOR 4, TRANS. 18.0,
 WAVE SE 1, SWELL SE 1, WIND SE 1, BARO 1013. , AIR TEMP. DRY 22.5, WET , CLOUD. TYPE CI, AMT 01, WEATHER B ,

0	19.93	33.125	5.27							0	19.93	33.125	5.27	23.37	452	451	0.0000
10	17.67	33.512	5.27							10	17.67	33.512	5.27	24.23	369	369	0.0410
20	11.41	34.241	5.07							20	11.41	34.241	5.07	26.12	189	189	0.0690
30	8.82	34.311	5.30							30	8.82	34.311	5.30	26.62	142	142	0.0856
50	4.32	34.084	6.53							50	4.32	34.084	6.53	27.04	102	102	0.1102
75	2.59	34.078	6.34							75	2.59	34.078	6.34	27.20	087	087	0.1339
100	2.19	34.063	6.34							100	2.19	34.063	6.34	27.22	083	085	0.1555
126	1.72	34.068	6.25							125	1.73	34.067	6.25	27.26	081	081	0.1764
150	1.35	34.075	6.34							150	1.35	34.075	6.34	27.30	078	078	0.1964
198	1.14	34.100	6.46							200	1.13	34.098	6.45	27.33	075	075	0.2349
245	0.99	34.055	6.25							250	0.97	34.060	6.24	27.31	077	077	0.2731
295	0.81	34.108	6.15							300	0.79	34.106	6.15	27.36	072	072	0.3105
391	0.49	34.081	6.27							400	0.47	34.078	6.26	27.35	073	072	0.3831
487	0.38	34.057	6.25														

KOREA ,CHUN MA SAN , STATION 107-03 , 38-12.6. N, 128-50.6. E. OCT. 6.1982, 10:40 KST, DEPTH 1120 , COLOR 2, TRANS. 25.0,
 WAVE SE 1, SWELL SE 1, WIND SE 2, BARO 1012. , AIR TEMP. DRY 19.8, WET , CLOUD. TYPE CI, AMT 01, WEATHER B ,

0	20.88	33.346	5.02							0	20.88	33.346	5.02	23.29	459	459	0.0000
10	20.20	33.351	5.11							10	20.20	33.351	5.11	23.47	442	442	0.0451

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
20	18.20	33.443	****							20	18.20	33.443	5.34	24.05	387	387	0.0866
30	11.33	34.245	5.57							30	11.33	34.245	5.57	26.14	187	188	0.1153
50	6.69	34.197	6.81							50	6.69	34.197	6.81	26.84	121	121	0.1463
75	4.03	34.100	6.60							75	4.03	34.100	6.60	27.08	098	098	0.1739
99	3.30	34.081	6.68							100	3.29	34.080	6.66	27.14	093	093	0.1979
130	3.24	34.059	6.18							125	3.24	34.062	6.26	27.13	094	094	0.2214
156	2.72	34.071	6.15							150	2.84	34.068	6.15	27.17	090	090	0.2446
204	1.53	34.066	6.06							200	1.62	34.066	6.06	27.27	080	081	0.2876
252	1.23	34.086	6.06							250	1.24	34.085	6.06	27.31	077	077	0.3272
300	0.92	34.081	5.96							300	0.92	34.081	5.96	27.33	075	075	0.3653
397	0.91	34.080	6.06							400	0.89	34.080	6.06	27.33	075	075	0.4407
494	0.44	34.080	6.06														

KOREA , CHUN MA SAN , STATION 107-04 , 38-12.6. N, 129-03.5. E, OCT. 6.1982, 13100 KST, DEPTH 1296 , COLOR 2, TRANS. 25.0,
 WAVE SE 1, SWELL SE 1, WIND SE 1, BARO 1011.5, AIR TEMP. DRY 20.5, WET , CLOUD. TYPE C1, AMT 01, WEATHER B ,

0	21.20	33.041	5.02							0	21.20	33.041	5.02	22.97	490	490	0.0000
10	20.47	33.091	5.11							10	20.47	33.091	5.11	23.20	468	468	0.0479
20	19.32	33.371	5.30							20	19.32	33.371	5.30	23.71	419	419	0.0922
30	16.93	33.590	5.77							30	16.93	33.590	5.77	24.46	347	348	0.1306
50	13.20	34.004	7.00							50	13.20	34.004	7.00	25.60	239	240	0.1895
75	9.69	33.974	6.62							75	9.69	33.974	6.62	26.22	180	181	0.2423
102	7.30	33.989	6.69							100	7.47	33.987	6.68	26.37	147	148	0.2836
126	4.34	33.890	****							125	4.46	33.894	6.27	26.88	118	119	0.3170
149	3.13	33.867	6.10							150	3.10	33.870	6.10	26.99	107	107	0.3454
197	1.72	34.045	6.25							200	1.69	34.047	6.24	27.25	082	083	0.3932

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY
246	1.30	34.079	6.15							250	1.25	34.084	6.12	27.31	077	077	0.4333
294	0.80	34.146	5.87							300	0.78	34.142	5.85	27.39	069	069	0.4701
392	0.55	34.082	5.58							400	0.53	34.081	5.58	27.35	073	072	0.5414
488	0.36	34.079	5.58														
KOREA ,CHUN MA SAN , STATION 107-05 , 38-12.6. N, 129-22.3. E, OCT. 6.1982, 15:40 KST, DEPTH 1080 , COLOR 2, TRANS. 26.0,																	
WAVE NW 1, SWELL NW 1, WIND NW 1, BARO 1009.5, AIR TEMP. DRY 20.3, WET , CLOUD. TYPE CI, AMT 01, WEATHER B ,																	
0	20.42	33.416	5.20							0	20.42	33.416	5.20	23.46	443	442	0.0000
10	19.36	33.451	5.11							10	19.36	33.451	5.11	23.76	414	414	0.0428
20	18.75	33.676	5.37							20	18.75	33.676	5.37	24.09	383	383	0.0827
30	16.82	33.676	5.58							30	16.82	33.676	5.58	24.56	338	339	0.1189
50	8.68	33.855	6.69							50	8.68	33.855	6.69	26.29	174	174	0.1703
75	4.25	34.059	6.44							75	4.25	34.059	6.44	27.03	103	104	0.2051
98	3.23	34.083	6.56							100	3.17	34.082	6.52	27.15	091	092	0.2296
131	2.32	34.077	5.96							125	2.48	34.078	6.06	27.21	086	086	0.2520
154	2.13	34.068	6.15							150	2.16	34.069	6.11	27.23	084	084	0.2735
203	1.94	34.085	5.77							200	1.95	34.083	5.79	27.26	081	082	0.3153
251	1.11	34.088	5.88							250	1.12	34.087	5.87	27.32	076	076	0.3550
299	0.84	34.089	5.68							300	0.83	34.088	5.67	27.34	074	074	0.3925
396	0.48	34.084	5.49							400	0.47	34.084	5.50	27.36	072	072	0.4657
491	0.43	34.107	5.75														
KOREA ,CHUN MA SAN , STATION 107-06 , 38-12.6. N, 129-41.1. E, OCT. 6.1982, 18:20 KST, DEPTH 882 , COLOR , TRANS.																	
WAVE S 3, SWELL S 2, WIND S 3, BARO 1009.5, AIR TEMP. DRY 20.1, WET , CLOUD. TYPE CI, AMT 01, WEATHER B ,																	
0	21.80	32.903	5.08							0	21.80	32.903	5.08	22.70	515	515	0.0000
10	21.39	32.862	5.20							10	21.39	32.862	5.20	22.86	500	500	0.0508

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
20	19.92	33.222	5.40							20	19.92	33.222	5.40	23.44	444	445	0.0981
30	16.05	33.633	5.75							30	16.05	33.633	5.75	24.70	324	325	0.1366
50	5.57	34.129	6.22							50	5.57	34.129	6.22	26.93	112	113	0.1805
75	3.89	34.105	6.15							75	3.89	34.105	6.15	27.10	096	097	0.2067
98	3.88	34.140	6.59							100	3.77	34.135	6.55	27.14	093	093	0.2306
134	1.90	34.058	****							125	2.39	34.078	6.17	27.22	085	086	0.2531
159	1.60	34.092	6.00							150	1.70	34.079	6.01	27.27	080	080	0.2739
207	1.22	34.079	5.68							200	1.27	34.080	5.72	27.31	077	077	0.3135
254	0.72	34.079	5.89							250	0.76	34.079	5.87	27.34	074	074	0.3515
301	0.66	34.077	5.87							300	0.66	34.077	5.87	27.34	074	073	0.3886
397	0.46	34.061	5.49							400	0.45	34.061	5.50	27.34	074	073	0.4625
492	0.38	34.077	5.96														

KOREA .CHUN MA SAN , STATION 107-07 , 38-12.6. N, 130-00.0. E, OCT. 6.1982, 21:00 KST, DEPTH 846 , COLOR , TRANS.

WAVE SW 2. SWELL SW 1, WIND SW 3, BARO 1011. , AIR TEMP. DRY 20.5, WET , CLOUD. TYPE CI, AMT O1, WEATHER B ,

0	21.92	32.565	5.20							0	21.92	32.565	5.20	22.41	543	543	0.0000
10	21.89	32.546	5.02							10	21.89	32.546	5.02	22.40	544	544	0.0543
20	21.29	33.095	5.33							20	21.29	33.095	5.33	22.98	488	489	0.1060
30	21.03	33.235	5.57							30	21.03	33.235	5.57	23.16	471	472	0.1541
50	12.76	34.109	5.52							50	12.76	34.109	5.52	25.77	223	224	0.2238
75	6.05	34.100	5.77							75	6.05	34.100	5.77	26.85	120	121	0.2670
99	3.10	34.050	6.44							100	3.08	34.050	6.41	27.14	093	093	0.2939
134	2.63	34.052	5.49							125	2.75	34.051	5.73	27.17	090	091	0.3170
158	2.32	34.083	5.96							150	2.42	34.072	5.80	27.21	086	086	0.3392
207	1.78	34.064	****							200	1.85	34.066	5.70	27.25	082	082	0.3817

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY

254	1.37	34.078	5.77							250	1.40	34.076	5.76	27.29	078	078	0.4222
301	1.17	34.082	5.77							300	1.17	34.081	5.77	27.31	076	077	0.4612
394	0.72	34.067	5.49							400	0.71	34.068	5.49	27.33	075	074	0.5372
491	0.57	34.087	5.58														

12月(December)

KOREA , CHUN MA SAN , STATION 107-01 , 38-12.6. N, 128-37.4. E, DEC.15.1982, 09:55 KST, DEPTH 90 , COLOR 4, TRANS. 15.0,
 WAVE N 2, SWELL N 1, WIND N 2, BARO 1018. , AIR TEMP. DRY 3.8, WET , CLOUD. TYPE CI, AMT 03, WEATHER BC,
 0 9.93 33.752 6.48 0 9.93 33.752 6.48 26.01 200 200 0.0000
 10 9.96 33.754 6.48 10 9.96 33.754 6.48 26.00 201 201 0.0200
 20 9.96 33.759 6.68 20 9.96 33.759 6.68 26.01 200 200 0.0401
 30 9.93 33.749 6.18 30 9.93 33.749 6.18 26.00 201 201 0.0603
 50 8.52 33.966 6.28 50 8.52 33.966 6.28 26.40 163 164 0.0968
 75 3.17 34.047 6.58 75 3.17 34.047 6.38 27.13 094 094 0.1291

KOREA , CHUN MA SAN , STATION 107-02 , 38-12.6. N, 128-42.7. E, DEC.15.1982, 10:50 KST, DEPTH 855 , COLOR 4, TRANS. 15.0,
 WAVE N 3, SWELL N 2, WIND N 3, BARO 1018. , AIR TEMP. DRY 5.8, WET , CLOUD. TYPE CI, AMT 03, WEATHER BC,
 0 12.42 33.995 6.18 0 12.42 33.995 6.18 25.74 225 225 0.0000
 10 12.42 33.976 6.48 10 12.42 33.976 6.48 25.73 227 227 0.0226
 20 10.79 33.880 6.18 20 10.79 33.880 6.18 25.96 205 205 0.0442
 30 10.44 33.825 6.28 30 10.44 33.825 6.21 25.98 203 204 0.0647
 50 10.22 33.801 6.28 50 10.22 33.801 6.28 25.99 201 202 0.1054
 75 10.08 33.846 6.18 75 10.08 33.846 6.18 26.05 196 197 0.1554
 99 9.24 33.971 6.58 100 8.98 33.973 6.37 26.33 169 171 0.2015
 128 1.73 34.058 6.18 125 2.68 34.031 6.20 27.16 091 091 0.2345

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
150	1.72	34.050	6.08							150	1.74	34.048	6.09	27.23	083	083	0.2564
200	1.27	34.057	6.48							200	1.28	34.056	6.46	27.29	079	079	0.2971
250	1.11	34.056	6.38							250	1.11	34.056	6.38	27.30	078	078	0.3366
300	0.95	34.043	6.48							300	0.95	34.043	6.48	27.30	078	078	0.3758
350	0.93	34.059	6.08							400	0.71	34.058	6.08	27.31	077	077	0.4536
400	0.38	34.055	6.08														
KOREA .CHUN MA SAN , STATION 107-03 , 38-12.6. N, 128-50.6. E, DEC.16.1982, 11:00 KST. DEPTH 1120 , COLOR 4, TRANS. 15.0, WAVE SW 3, SWELL SW 1, WIND SW 3, BARD 1015.5, AIR TEMP. DRY 6.2, WET , CLOUD. TYPE CU, AMT 08, WEATHER C ,																	
0	10.88	33.842	6.18							0	10.88	33.842	6.18	25.91	209	209	0.0000
10	10.83	33.835	6.28							10	10.83	33.835	6.28	25.91	209	209	0.0209
20	10.48	33.815	6.18							20	10.48	33.815	6.18	25.96	205	205	0.0416
30	10.15	33.771	6.18							30	10.15	33.771	6.18	25.98	203	203	0.0621
50	9.72	33.770	6.18							50	9.72	33.770	6.18	26.05	196	196	0.1021
75	5.65	34.048	6.18							75	5.65	34.048	6.18	26.86	119	120	0.1417
98	3.42	34.048	6.38							100	3.37	34.047	6.37	27.11	096	096	0.1689
132	2.58	34.036	6.28							125	2.75	34.038	6.30	27.16	091	092	0.1925
155	2.42	34.028	6.18							150	2.45	34.029	6.20	27.18	089	090	0.2152
203	2.12	34.040	6.38							200	2.13	34.039	6.36	27.21	086	087	0.2596
251	1.32	34.037	6.28							250	1.33	34.037	6.28	27.27	081	081	0.3018
298	0.97	34.038	6.48							300	0.96	34.038	6.47	27.29	078	078	0.3419
394	0.55	34.056	6.18							400	0.54	34.052	6.18	27.33	075	075	0.4188
489	0.40	34.000	6.18														

OBSERVED										INTERPOLATED					CALCULATED		
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY
KOREA ,CHUN MA SAN , STATION 107-04 , 38-12.6. N, 129-03.5. E, DEC.16.1982. 12:50 KST, DEPTH 1296 , COLOR 4, TRANS. 15.0.																	
WAVE NW 3, SWELL NW 1, WIND NW 3, BARO 1014. , AIR TEMP. DRY 6.0, WET , CLOUD. TYPE CU, AMT 09, WEATHER C ,																	
0	9.80	33.733	6.48							0	9.80	33.733	6.48	26.01	200	199	0.0000
10	9.81	33.764	6.48							10	9.81	33.764	6.48	26.03	198	197	0.0198
20	9.81	33.712	6.48							20	9.81	33.712	6.48	25.99	201	202	0.0398
30	9.81	33.706	6.18							30	9.81	33.706	6.18	25.99	202	202	0.0601
50	9.80	33.724	6.18							50	9.80	33.724	6.18	26.01	200	201	0.1005
75	8.87	33.818	6.18							75	8.87	33.818	6.18	26.23	179	180	0.1483
100	8.73	33.929	6.08							100	8.73	33.929	6.08	26.34	169	170	0.1922
129	3.61	33.990	6.18							125	4.31	33.981	6.16	26.96	110	111	0.2275
153	3.23	34.018	6.48							150	3.27	34.014	6.44	27.09	097	098	0.2537
201	2.73	33.998	6.48							200	2.74	33.998	6.48	27.13	094	095	0.3022
249	2.66	33.995	6.48							250	2.62	33.995	6.47	27.13	093	094	0.3497
296	1.21	34.015	6.38							300	1.19	34.015	6.36	27.26	082	082	0.3940
393	0.80	34.024	5.98							400	0.78	34.025	5.98	27.29	078	078	0.4744
488	0.54	34.042	6.08														
KOREA ,CHUN MA SAN , STATION 107-05 , 38-12.6. N, 129-22.3. E, DEC.16.1982. 15:40 KST, DEPTH 1080 , COLOR 4, TRANS. 16.0.																	
WAVE NE 2, SWELL NE 1, WIND NE 2, BARO 1014. , AIR TEMP. DRY 6.4, WET , CLOUD. TYPE NS, AMT 10, WEATHER C ,																	
0	9.58	33.717	6.38							0	9.58	33.717	6.38	26.04	197	197	0.0000
10	9.58	33.706	6.38							10	9.58	33.706	6.38	26.03	198	198	0.0198
20	9.56	33.706	6.28							20	9.56	33.706	6.28	26.03	198	198	0.0396
30	9.55	33.701	6.28							30	9.55	33.701	6.28	26.03	198	198	0.0595
50	9.50	33.724	6.18							50	9.50	33.724	6.18	26.05	196	196	0.0991
75	9.14	34.102	5.88							75	9.14	34.102	5.88	26.41	162	163	0.1442

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
100	4.32	34.086	5.98							100	4.32	34.086	5.98	27.04	102	103	0.1775
129	2.76	34.043	6.18							125	2.97	34.048	6.15	27.15	092	093	0.2020
153	1.85	34.024	6.28							150	1.96	34.026	6.26	27.21	086	086	0.2245
202	1.44	34.031	6.08							200	1.45	34.030	6.08	27.25	082	082	0.2668
251	1.06	34.048	6.38							250	1.06	34.047	6.37	27.29	078	078	0.3072
299	0.90	34.035	5.98							300	0.89	34.034	5.98	27.29	078	078	0.3466
397	0.48	34.032	6.08							400	0.47	34.032	6.08	27.32	076	076	0.4240
493	0.34	34.036	6.18														

KOREA ; CHUN MA SAN ; STATION 107-06 , 38-12.6. N, 127-41.1. E, DEC.16.1982, 18:00 KST, DEPTH 882 , COLOR , TRANS. ,
 WAVE NW 1, SWELL NW 1, WIND NW 2, BARO 1014. , AIR TEMP. DRY 6.0, WET , CLOUD. TYPE NS, AMT 10, WEATHER C ,
 0 13.97 33.889 5.99 0 13.97 33.889 5.99 25.35 263 262 0.0000
 10 13.99 33.876 6.09 10 13.99 33.876 6.09 25.34 264 264 0.0263
 20 13.99 33.874 5.89 20 13.99 33.874 5.89 25.33 264 264 0.0528
 30 13.99 33.880 5.89 30 13.99 33.880 5.89 25.34 264 264 0.0793
 50 13.93 33.907 6.09 50 13.93 33.907 6.09 25.37 261 262 0.1320
 75 10.49 34.071 5.79 75 10.49 34.071 5.79 26.16 186 187 0.1882
 99 5.71 34.144 5.99 100 5.63 34.142 5.99 26.94 112 113 0.2258
 125 3.12 34.075 5.99 125 3.83 34.094 5.99 27.10 097 097 0.2522
 158 2.73 34.040 6.18 150 2.86 34.052 6.11 27.16 091 092 0.2760
 205 2.71 34.036 6.18 200 2.71 34.036 6.18 27.16 091 092 0.3220
 252 2.34 34.048 6.08 250 2.35 34.047 6.08 27.20 087 088 0.3673
 298 0.96 34.047 5.98 300 0.95 34.046 5.98 27.30 078 078 0.4089
 393 0.69 34.036 6.18 400 0.68 34.036 6.17 27.31 077 077 0.4866
 487 0.58 34.047 6.08

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY
KOREA ,CHUN MA SAN , STATION 107-07 , 38-12.6. N, 130-00.0. E, DEC.16.1982, 20140 KST, DEPTH 846 , COLOR , TRANS.																	
WAVE NW 4, SWELL NW 2, WIND NW 4, BARO 1012. , AIR TEMP. DRY 8.2, WET , CLOUD. TYPE NS, AMT 10, WEATHER C ,																	
0	14.93	34.004	5.59							0	14.93	34.004	5.59	25.23	274	273	0.0000
10	15.04	33.991	5.59							10	15.04	33.991	5.59	25.20	277	277	0.0275
20	15.07	33.986	5.59							20	15.07	33.986	5.59	25.19	278	278	0.0553
30	15.01	33.985	5.59							30	15.01	33.985	5.59	25.20	277	277	0.0831
50	14.97	33.985	5.49							50	14.97	33.985	5.49	25.21	276	277	0.1387
75	14.78	33.977	5.49							75	14.78	33.977	5.49	25.25	273	274	0.2077
96	11.03	34.325	5.49							100	10.49	34.308	5.51	26.34	168	170	0.2634
132	6.22	34.176	5.68							125	7.15	34.204	5.64	26.79	126	128	0.3008
155	3.79	34.077	6.18							150	4.31	34.098	6.07	27.05	101	102	0.3296
202	2.15	34.036	5.98							200	2.21	34.037	5.98	27.20	087	087	0.3773
249	2.09	34.078	5.88							250	2.07	34.078	5.88	27.25	083	083	0.4203
295	1.30	34.080	5.88							300	1.26	34.077	5.88	27.30	077	078	0.4608
390	0.72	34.031	5.88							400	0.70	34.031	*****	27.30	077	077	0.5387
482	0.62	34.031	*****														

106線 海洋觀測 成績

Oceanographic Data. Line 106

OBSERVED														INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY				

2月(February)

KOREA ,CHUN MA SAN , STATION 106-02 , 37-53.7. N, 128-52.5. E, FEB.17.1982, 04:00 KST, DEPTH 58 , COLOR , TRANS.																	
WAVE NW 2, SWELL , WIND NW 2, BARO 1018. , AIR TEMP. DRY 6.5, WET , CLOUD. TYPE CI, AMT 06, WEATHER BC.																	
0	9.45	34.430	*****							0	9.45	34.430	*****	26.61	143	142	0.0000
10	9.60	34.430	*****							10	9.60	34.430	*****	26.59	145	145	0.0144
20	8.35	34.310	*****							20	8.35	34.310	*****	26.70	135	135	0.0284
30	6.95	34.140	*****							30	6.95	34.140	*****	26.76	128	128	0.0416
50	5.80	34.090	*****							50	5.80	34.090	*****	26.88	118	118	0.0664

KOREA ,CHUN MA SAN , STATION 106-03 , 37-53.7. N, 128-57.2. E, FEB.17.1982, 03:10 KST, DEPTH 320 , COLOR , TRANS.																	
WAVE NW 3, SWELL NW 2, WIND NW 3, BARO 1018. , AIR TEMP. DRY 6.0, WET , CLOUD. TYPE , AMT 05, WEATHER BC.																	
0	9.80	34.400	*****							0	9.80	34.400	*****	26.53	150	150	0.0000
10	9.86	34.420	*****							10	9.86	34.420	*****	26.54	150	150	0.0150
20	10.20	*****	*****							20	10.20	34.395	*****	26.46	157	157	0.0304
30	9.67	34.370	*****							30	9.67	34.370	*****	26.53	151	151	0.0459
50	9.05	34.360	*****							50	9.05	34.360	*****	26.62	142	142	0.0753
75	4.40	34.040	*****							75	4.40	34.040	*****	27.00	106	107	0.1065
98	3.73	34.020	*****							100	3.67	34.017	*****	27.06	101	101	0.1326
123	3.00	33.990	*****							125	2.95	33.990	*****	27.10	096	097	0.1575
145	2.45	34.000	*****							150	2.42	34.000	*****	27.15	091	092	0.1812
192	2.26	34.000	*****							200	2.23	33.998	*****	27.17	090	091	0.2270
239	2.12	33.990	*****							250	2.09	33.997	*****	27.18	089	090	0.2724
286	2.00	34.020	*****														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA :CHUN MA SAN , STATION 106-04 , 37-53.7. N, 129-03.8. E, FEB.17.1982, 01:50 KST, DEPTH 710 , COLOR , TRANS.

WAVE NW 2, SWELL NW 1, WIND NW 2, BARO 1018. , AIR TEMP. DRY 6.0, WET , CLOUD. TYPE CI, AMT 05, WEATHER BC.

0	9.80	34.410	*****							0	9.80	34.410	*****	26.54	150	149	0.0000
10	9.76	34.440	*****							10	9.76	34.440	*****	26.57	147	147	0.0148
20	9.36	34.370	*****							20	9.36	34.370	*****	26.58	146	146	0.0295
30	7.60	34.230	*****							30	7.60	34.230	*****	26.74	130	130	0.0433
50	7.20	34.240	*****							50	7.20	34.240	*****	26.81	124	125	0.0689
75	5.60	34.110	*****							75	5.60	34.110	*****	26.92	114	115	0.0990
99	4.70	34.060	*****							100	4.64	34.056	*****	26.99	107	108	0.1269
123	3.30	33.980	*****							125	3.28	33.981	*****	27.06	100	101	0.1531
147	3.15	34.000	*****							150	3.12	34.001	*****	27.09	097	098	0.1780
196	2.70	34.020	*****							200	2.67	34.020	*****	27.15	092	093	0.2259
245	2.38	34.030	*****							250	2.33	34.027	*****	27.18	089	089	0.2716
293	1.95	34.010	*****							300	1.93	34.010	*****	27.20	087	088	0.3161
390	1.70	34.020	*****							400	1.59	34.020	*****	27.23	084	085	0.4027
487	0.70	34.020	*****														

KOREA :CHUN MA SAN , STATION 106-05 , 37-53.7. N, 129-22.1. E, FEB.16.1982, 22:50 KST, DEPTH 1120 , COLOR , TRANS.

WAVE NE 3, SWELL NE 2, WIND NE 3, BARO 1018. , AIR TEMP. DRY 5.8, WET , CLOUD. TYPE , AMT 03, WEATHER BC.

0	9.30	34.420	*****							0	9.30	34.420	*****	26.63	141	141	0.0000
10	9.05	34.420	*****							10	9.05	34.420	*****	26.67	137	137	0.0139
20	8.90	34.340	*****							20	8.90	34.340	*****	26.63	141	141	0.0278
30	8.15	34.130	*****							30	8.15	34.130	*****	26.58	145	146	0.0422
50	8.04	34.120	*****							50	8.04	34.120	*****	26.59	145	145	0.0714
75	7.70	34.110	*****							75	7.70	34.110	*****	26.64	141	142	0.1074

OBSERVED										INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY	

99	5.45	34.090	*****							100	5.41	34.088	*****	26.92	113	114	0.1395
123	4.60	*****	*****							125	4.53	34.046	*****	26.99	107	108	0.1674
147	3.86	34.010	*****							150	3.77	34.010	*****	27.04	102	103	0.1539
196	2.45	34.010	*****							200	2.41	34.010	*****	27.16	090	091	0.2427
244	2.05	34.020	*****							250	2.01	34.020	*****	27.21	087	087	0.2876
292	1.80	34.050	*****							300	1.71	34.046	*****	27.25	083	083	0.3304
388	0.80	34.010	*****							400	0.76	34.012	*****	27.28	079	079	0.4120
482	0.55	34.030	*****														

KOREA ,CHUN MA SAN , STATION 106-06 , 37-53.7. N, 129-41.3. E, FEB.16.1982, 20:00 KST, DEPTH 1620 , COLOR , TRANS. ,

WAVE NE 3, SWELL NE 2, WIND NE 3, BARO 1020. , AIR TEMP. DRY 6.7, WET , CLOUD. TYPE , AMT 03, WEATHER BC,

0	6.80	34.160	*****							0	6.80	34.160	*****	26.80	125	125	0.0000
10	6.68	34.150	*****							10	6.68	34.150	*****	26.81	124	124	0.0124
20	6.50	34.140	*****							20	6.50	34.140	*****	26.83	123	123	0.0248
30	6.46	34.140	*****							30	6.46	34.140	*****	26.83	122	122	0.0371
50	6.34	34.140	*****							50	6.34	34.140	*****	26.85	121	121	0.0615
75	6.25	34.120	*****							75	6.25	34.120	*****	26.84	121	122	0.0920
98	6.15	34.100	*****							100	6.14	34.103	*****	26.84	121	122	0.1225
122	6.04	34.140	*****							125	6.02	34.141	*****	26.89	117	118	0.1526
146	5.95	34.150	*****							150	5.93	34.147	*****	26.90	115	117	0.1821
194	5.75	34.120	*****							200	5.48	34.120	*****	26.94	112	114	0.2400
242	3.62	34.120	*****							250	3.40	34.116	*****	27.16	091	092	0.2918
290	2.30	34.100	*****							300	2.17	34.092	*****	27.25	082	083	0.3360
387	1.11	34.030	*****							400	1.06	34.032	*****	27.28	079	080	0.4180
484	0.75	34.050	*****														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA ,CHUN MA SAN , STATION 106-07 , 37-53.7. N, 130-00.0. E, FEB.16.1982, 17:10 KST, DEPTH 1060 , COLOR , TRANS. , WAVE NE 3, SWELL NE 2, WIND NE 3, BARO 1020. , AIR TEMP. DRY 6.5, WET , CLOUD. TYPE ST, AMT 03, WEATHER BC,																	
0	6.45	34.130	*****							0	6.45	34.130	*****	26.82	123	122	0.0000
10	6.30	34.130	*****							10	6.30	34.130	*****	26.84	121	121	0.0122
20	6.28	34.130	*****							20	6.28	34.130	*****	26.85	121	121	0.0243
30	6.28	34.120	*****							30	6.28	34.120	*****	26.84	121	121	0.0364
50	6.25	34.110	*****							50	6.25	34.110	*****	26.83	122	122	0.0609
75	6.20	34.130	*****							75	6.20	34.130	*****	26.86	120	120	0.0913
99	6.05	34.100	*****							100	6.04	34.100	*****	26.85	120	121	0.1216
124	6.02	34.100	*****							125	6.00	34.100	*****	26.86	119	121	0.1519
148	5.65	34.100	*****							150	5.62	34.099	*****	26.90	115	117	0.1817
197	5.06	34.080	*****							200	4.95	34.076	*****	26.96	109	111	0.2389
245	3.45	34.020	*****							250	3.25	34.020	*****	27.10	097	098	0.2915
293	1.60	34.020	*****							300	1.58	34.020	*****	27.23	084	084	0.3374
391	1.45	34.020	*****							400	1.40	34.021	*****	27.25	082	083	0.4215
487	0.95	34.040	*****														

KOREA ,CHUN MA SAN , STATION 106-08 , 37-53.7. N, 130-18.9. E, FEB.16.1982, 14:20 KST, DEPTH 1800 , COLOR 3, TRANS. 23.0, WAVE NE 2, SWELL NE 1, WIND NE 2, BARO 1020. , AIR TEMP. DRY 6.5, WET , CLOUD. TYPE ST, AMT 01, WEATHER B ,																	
0	7.35	34.110	*****							0	7.35	34.110	*****	26.69	136	136	0.0000
10	7.55	34.100	*****							10	7.55	34.100	*****	26.65	139	139	0.0137
20	7.04	34.110	*****							20	7.04	34.110	*****	26.73	132	132	0.0273
30	6.25	34.100	*****							30	6.25	34.100	*****	26.83	122	123	0.0401
50	6.15	34.110	*****							50	6.15	34.110	*****	26.85	120	121	0.0645
75	6.05	34.100	*****							75	6.05	34.100	*****	26.85	120	121	0.0949

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
99	6.01	34.120	*****							100	5.99	34.119	*****	26.87	118	119	0.1249
123	5.60	34.100	*****							125	5.56	34.097	*****	26.91	114	116	0.1344
147	5.18	34.070	*****							150	5.15	34.069	*****	26.94	112	113	0.1331
196	4.85	34.060	*****							200	4.67	34.058	*****	26.98	108	109	0.2391
245	2.75	34.040	*****							250	2.72	34.037	*****	27.16	091	092	0.2897
294	2.50	34.020	*****							300	2.44	34.020	*****	27.17	090	091	0.3357
392	1.62	34.020	*****							400	1.56	34.020	*****	27.24	084	084	0.4240
488	0.96	34.030	*****														

KOREA : CHUN MA SAN , STATION 106-09 , 37-53.7. N, 130-37.7. E, FEB.16.1982, 11:40 KST, DEPTH 2250 , COLOR 3, TRANS. 22.0.

WAVE NE 2, SWELL NE 1, WIND NE 1, BARO 1020. , AIR TEMP. DRY 7.0, WET , CLOUD. TYPE CI, AMT 03, WEATHER BC.

0	7.65	34.290	*****							0	7.65	34.290	*****	26.78	127	126	0.0000
10	7.35	34.250	*****							10	7.35	34.250	*****	26.80	125	125	0.0126
20	6.82	34.210	*****							20	6.82	34.210	*****	26.84	121	121	0.0250
30	6.75	34.210	*****							30	6.75	34.210	*****	26.85	121	121	0.0371
50	6.60	34.110	*****							50	6.60	34.110	*****	26.79	126	126	0.0619
75	6.45	34.110	*****							75	6.45	34.110	*****	26.81	124	125	0.0935
98	6.30	34.110	*****							100	6.17	34.106	*****	26.84	121	122	0.1245
123	4.75	34.060	*****							125	4.62	34.057	*****	26.99	107	108	0.1534
147	3.24	34.030	*****							150	3.17	34.029	*****	27.11	095	096	0.1790
195	2.25	34.020	*****							200	2.21	34.020	*****	27.19	088	089	0.2255
243	1.90	34.020	*****							250	1.86	34.021	*****	27.22	086	086	0.2695
290	1.65	34.030	*****							300	1.55	34.031	*****	27.25	083	083	0.3120
387	0.75	34.040	*****							400	0.72	34.041	*****	27.31	077	077	0.3924
485	0.54	34.050	*****														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA ,CHUN MA SAN , STATION 106-10 , 37-53.7. N, 130-56.5. E, FEB.16.1982, 09:00 KST, DEPTH 1980 , COLOR 3, TRANS. 21.0, WAVE NE 3, SWELL NE 1, WIND NE 3, BARO 1017. , AIR TEMP. DRY 5.8, WET , CLOUD. TYPE C1, AMT 04, WEATHER BC,																	
0	8.25	34.340	*****							0	8.25	34.340	*****	26.73	131	131	0.0000
10	8.40	34.330	*****							10	8.40	34.330	*****	26.70	134	134	0.0133
20	8.28	34.270	*****							20	8.28	34.270	*****	26.67	137	137	0.0268
30	7.65	34.250	*****							30	7.65	34.250	*****	26.75	129	130	0.0402
50	7.10	34.230	*****							50	7.10	34.230	*****	26.81	124	124	0.0657
75	6.24	34.150	*****							75	6.24	34.150	*****	26.87	119	119	0.0962
96	5.34	34.110	*****							100	5.11	34.096	*****	26.96	109	110	0.1251
120	3.96	34.050	*****							125	3.66	34.023	*****	27.06	100	101	0.1516
143	2.60	34.000	*****							150	2.48	34.004	*****	27.15	092	092	0.1758
190	1.86	34.030	*****							200	1.84	34.034	*****	27.23	084	085	0.2203
237	1.80	34.050	*****							250	1.64	34.038	*****	27.25	083	083	0.2625
284	1.25	34.010	*****							300	1.20	34.013	*****	27.26	082	082	0.3040
381	0.96	34.030	*****							400	0.89	34.030	*****	27.29	079	079	0.3848
477	0.65	34.030	*****														
KOREA ,CHUN MA SAN , STATION 106-11 , 37-53.7. N, 131-15.1. E, FEB.16.1982, 06:10 KST, DEPTH 2070 , COLOR , TRANS. , WAVE NE 3, SWELL NE 1, WIND NE 3, BARO 1017. , AIR TEMP. DRY 5.8, WET , CLOUD. TYPE , AMT 03, WEATHER BC,																	
0	8.90	34.370	*****							0	8.90	34.370	*****	26.66	139	138	0.0000
10	9.06	34.380	*****							10	9.06	34.380	*****	26.64	140	140	0.0139
20	8.35	34.370	*****							20	8.35	34.370	*****	26.74	130	131	0.0275
30	8.80	34.770	*****							30	8.80	34.370	*****	26.67	137	137	0.0410
50	7.26	34.210	*****							50	7.26	34.210	*****	26.78	127	128	0.0676
75	4.15	34.050	*****							75	4.15	34.050	*****	27.03	103	103	0.0966

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
98	3.86	34.010	*****							100	3.84	34.010	*****	27.03	103	103	0.1225
123	3.70	34.020	*****							125	3.53	34.020	*****	27.07	099	100	0.1481
146	1.75	34.020	*****							150	1.70	34.020	*****	27.23	084	085	0.1713
193	1.24	34.030	*****							200	1.20	34.030	*****	27.27	080	081	0.2128
239	1.01	34.030	*****							250	0.94	34.030	*****	27.29	079	079	0.2528
274	0.80	34.040	*****							300	0.76	34.037	*****	27.30	077	077	0.2920
378	0.64	34.030	*****							400	0.58	34.030	*****	27.31	077	077	0.3693
473	0.40	34.030	*****														

4月(April)

KOREA -CHUN MA SAN , STATION 106-02 , 37-53.7. N, 128-52.5. E, APR.12.1982, 01:10 KST, DEPTH 58 , COLOR , TRANS.																	
WAVE SW 2, SWELL SW 2, WIND SW 2, BARO 1014. , AIR TEMP. DRY 10.5, WET , CLOUD. TYPE , AMT , WEATHER ,																	
0	9.89	34.440	*****							0	9.89	34.440	*****	26.55	149	149	0.0000
10	9.76	34.241	*****							10	9.76	34.241	*****	26.42	161	161	0.0155
20	7.62	34.211	*****							20	7.62	34.211	*****	26.73	132	132	0.0302
30	4.69	34.133	*****							30	4.69	34.133	*****	27.04	102	102	0.0420
50	2.71	34.076	*****							50	2.71	34.076	*****	27.19	088	088	0.0611

KOREA , CHUN MA SAN , STATION 106-03 , 37-53.7. N, 128-57.2. E, APR.11.1982, 00:10 KST, DEPTH 320 , COLOR , TRANS.																	
WAVE NW 2, SWELL NW 2, WIND NW 2, BARO 1014. , AIR TEMP. DRY 12.1, WET , CLOUD. TYPE , AMT , WEATHER ,																	
0	11.86	34.443	*****							0	11.86	34.443	*****	26.20	182	182	0.0000
10	11.54	34.454	*****							10	11.54	34.454	*****	26.27	176	176	0.0179
20	11.44	34.447	*****							20	11.44	34.447	*****	26.28	174	175	0.0354
30	11.34	34.393	*****							30	11.34	34.393	*****	26.26	177	177	0.0531
50	4.71	34.150	*****							50	4.71	34.150	*****	27.05	101	101	0.0810

OBSERVED																	INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY							
73	2.40	34.063	*****							75	2.33	34.061	*****	27.21	086	086	0.1045							
96	1.60	34.042	*****							100	1.56	34.043	*****	27.26	082	082	0.1257							
120	1.40	34.050	*****							125	1.38	34.050	*****	27.27	080	080	0.1460							
144	1.34	34.052	*****							150	1.29	34.057	*****	27.29	079	079	0.1660							
192	0.99	34.096	*****							200	0.98	34.090	*****	27.33	074	074	0.2046							
240	0.93	34.064	*****							250	0.89	34.059	*****	27.31	076	076	0.2425							
287	0.76	34.043	*****																					

KOREA

CHUN MA SAN

STATION 106-04

37-53.7 N

129-03.8 E

APR.11.1982

22:30 KST

DEPTH 710

COLOR

TRANS.

WAVE SW 2

SWELL SW 2

WIND SW 3

BARO 1014.5

AIR TEMP. DRY 12.3

WET

CLOUD-TYPE

AMT

WEATHER

0 12.19

0 12.19

10 11.45

34.464

10 11.45

34.464

26.29

173

20 10.82

34.482

20 10.82

34.482

26.42

161

30 9.74

34.389

30 9.74

34.389

26.53

150

50 7.61

34.296

50 7.61

34.296

26.79

126

75 5.74

34.169

75 5.74

34.169

26.95

111

99 4.10

34.120

100 4.07

34.117

27.09

097

118 3.60

34.072

125 3.49

34.059

27.11

096

141 3.24

34.052

150 3.02

34.034

27.13

094

188 2.11

34.046

200 1.89

34.047

27.23

084

235 1.26

34.053

250 1.14

34.053

27.29

078

281 0.92

34.054

300 0.86

34.054

27.31

076

376 0.62

34.057

400 0.58

34.056

27.33

075

470 0.49

34.056

OBSERVED														INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY				

KOREA , CHUN MA SAN , STATION 106-05 , 37-53.7. N, 129-22.1. E, APR.11.1982, 19:40 KST, DEPTH 1120 , COLOR , TRANS.
 WAVE SW 4, SWELL SW 2, WIND SW 4, BARO 1015. , AIR TEMP. DRY 12.7, WET , CLOUD. TYPE , AMT , WEATHER ,

0	12.30	34.451	*****							0	12.30	34.451	*****	26.12	190	189	0.0000
10	12.04	34.462	*****							10	12.04	34.462	*****	26.18	184	184	0.0187
20	10.39	34.410	*****							20	10.39	34.410	*****	26.44	159	159	0.0359
30	9.70	34.433	*****							30	9.70	34.433	*****	26.57	146	147	0.0512
40	7.40	34.341	*****							50	7.37	34.336	*****	26.86	119	120	0.0780
72	6.77	34.238	*****							75	6.56	34.221	*****	26.88	117	118	0.1078
94	5.30	34.116	*****							100	4.60	34.101	*****	27.02	104	104	0.1358
112	3.22	34.072	*****							125	2.62	34.048	*****	27.18	089	090	0.1601
130	2.39	34.040	*****							150	2.28	34.039	*****	27.20	087	088	0.1824
174	2.16	34.038	*****							200	1.93	34.068	*****	27.25	082	083	0.2253
221	1.76	34.094	*****							250	1.36	34.066	*****	27.29	079	079	0.2661
264	1.17	34.053	*****							300	1.00	34.057	*****	27.30	077	077	0.3054
352	0.77	34.063	*****							400	0.62	34.064	*****	27.33	074	074	0.3816
444	0.49	34.066	*****														

KOREA , CHUN MA SAN , STATION 106-06 , 37-53.7. N, 129-41.3. E, APR.11.1982, 16:50 KST, DEPTH 1620 , COLOR 4, TRANS. 15.0,
 WAVE SW 3, SWELL SW 2, WIND SW 4, BARO 1015. , AIR TEMP. DRY 13.2, WET , CLOUD. TYPE NS, AMT 07, WEATHER RC,

0	12.50	34.471	*****							0	12.50	34.471	*****	26.10	192	191	0.0000
10	12.44	34.489	*****							10	12.44	34.489	*****	26.12	189	189	0.0190
20	12.19	34.489	*****							20	12.19	34.489	*****	26.17	185	185	0.0378
30	10.87	34.489	*****							30	10.87	34.489	*****	26.42	161	162	0.0552
50	9.66	34.385	*****							50	9.66	34.385	*****	26.54	149	150	0.0865
74	7.08	34.257	*****							75	6.92	34.251	*****	26.86	120	120	0.1204

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
98	3.25	34.129	*****							100	3.24	34.117	*****	27.18	089	090	0.1468
113	3.18	34.039	*****							125	3.07	34.041	*****	27.13	094	094	0.1699
139	2.95	34.044	*****							150	2.80	34.043	*****	27.16	091	092	0.1932
183	2.35	34.040	*****							200	2.22	34.036	*****	27.20	087	088	0.2383
225	2.03	34.032	*****							250	1.54	34.044	*****	27.26	082	082	0.2809
268	1.19	34.053	*****							300	1.01	34.053	*****	27.30	077	078	0.3211
361	0.67	34.055	*****							400	0.57	34.055	*****	27.33	075	075	0.3976
450	0.45	34.055	*****														

KOPEA ,CHUN MA SAN , STATION 106-07 , 37-53.7. N, 130-00.0. E, APR.11.1982, 13:50 KST, DEPTH 1060 , COLOR 3, TRANS. 14.5,

WAVE SW 4, SWELL SW 2, WIND SW 4, BARO 1017. , AIR TEMP. DRY 14.5, WET , CLOUD. TYPE NS, AMT 09, WEATHER C ,

0	12.49	34.519	*****							0	12.49	34.519	*****	26.14	188	188	0.0000
10	12.42	34.538	*****							10	12.42	34.538	*****	26.16	185	185	0.0187
20	12.22	34.542	*****							20	12.22	34.542	*****	26.21	181	182	0.0370
30	12.20	34.534	*****							30	12.20	34.534	*****	26.20	182	182	0.0553
50	12.08	34.548	*****							50	12.08	34.548	*****	26.24	178	179	0.0915
74	11.40	34.474	*****							75	11.38	34.473	*****	26.31	171	173	0.1357
98	11.04	34.473	*****							100	10.30	34.437	*****	26.47	156	158	0.1771
113	5.56	34.205	*****							125	5.18	34.155	*****	27.00	106	107	0.2103
136	4.85	34.111	*****							150	4.37	34.095	*****	27.04	102	103	0.2367
181	3.32	34.060	*****							200	2.47	34.054	*****	27.19	088	088	0.2847
225	1.36	34.048	*****							250	1.11	34.050	*****	27.29	078	078	0.3267
271	0.99	34.052	*****							300	0.76	34.055	*****	27.32	076	076	0.3655
365	0.45	34.057	*****							400	0.40	34.059	*****	27.34	074	073	0.4404
461	0.34	34.054	*****														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA , CHUN MA SAN , STATION 106-08 , 37-53.7. N, 130-18.9. E, APR. 11. 1982, 11:00 KST, DEPTH 1820 , COLOR 4, TRANS. 16.0.
 WAVE NE 4, SWELL NE 2, WIND NE 4, BARO 1018. , AIR TEMP. DRY 14.2, WET , CLOUD. TYPE NS, AMT 05, WEATHER BC.

0	12.33	34.535	*****							0	12.33	34.535	*****	26.18	184	184	0.0000
10	11.99	34.546	*****							10	11.99	34.546	*****	26.25	177	177	0.0180
20	11.95	34.540	*****							20	11.95	34.540	*****	26.26	177	177	0.0358
30	11.93	34.541	*****							30	11.93	34.541	*****	26.26	176	177	0.0535
50	11.62	34.517	*****							50	11.62	34.517	*****	26.30	172	173	0.0886
74	11.18	34.490	*****							75	11.14	34.487	*****	26.37	166	168	0.1313
98	10.28	34.436	*****							100	9.94	34.418	*****	26.52	151	153	0.1715
118	6.95	34.263	*****							125	6.13	34.230	*****	26.94	111	113	0.2049
142	4.17	34.153	*****							150	3.75	34.137	*****	27.14	092	093	0.2308
195	1.39	34.053	*****							200	1.36	34.053	*****	27.28	080	080	0.2743
231	1.20	34.053	*****							250	1.16	34.058	*****	27.30	078	078	0.3141
270	1.12	34.064	*****							300	1.00	34.062	*****	27.31	077	077	0.3531
357	0.79	34.061	*****							400	0.75	34.058	*****	27.32	076	075	0.4297
500	0.67	34.053	*****							500	0.67	34.053	*****	27.32	076	075	0.5056

KOREA , CHUN MA SAN , STATION 106-09 , 37-53.7. N, 130-37.7. E, APR. 8. 1982, 12:50 KST, DEPTH 2250 , COLOR 4, TRANS. 14.5.
 WAVE NW 4, SWELL NW 2, WIND NW 4, BARO 1000. , AIR TEMP. DRY 9.5, WET , CLOUD. TYPE CU, AMT 09, WEATHER C ,

0	13.18	34.561	*****							0	13.18	34.561	*****	26.03	198	198	0.0000
10	13.41	34.561	*****							10	13.41	34.561	*****	25.98	202	202	0.0200
20	13.06	34.557	*****							20	13.06	34.557	*****	26.05	196	196	0.0400
30	12.96	34.552	*****							30	12.96	34.552	*****	26.07	194	195	0.0596
49	12.50	34.532	*****							50	12.49	34.531	*****	26.14	187	188	0.0980
72	12.43	34.525	*****							75	12.38	34.524	*****	26.16	186	187	0.1451

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
96	12.05	34.521	*****							100	11.54	34.496	*****	26.30	173	175	0.1904
112	10.02	34.424	*****							125	8.73	34.362	*****	26.68	137	139	0.2297
134	7.85	34.320	*****							150	5.87	34.226	*****	26.97	108	110	0.2609
179	2.29	34.057	*****							200	2.10	34.051	*****	27.22	085	086	0.3101
225	1.89	34.045	*****							250	1.73	34.057	*****	27.25	082	082	0.3523
270	1.61	34.067	*****							300	1.41	34.066	*****	27.28	079	079	0.3930
365	1.00	34.066	*****							400	0.79	34.068	*****	27.33	075	075	0.4708
450	0.50	34.072	*****														
KOREA , CHUN MA SAN , STATION 106-10 , 37-53.7. N, 130-56.5. E, APR. 8.1982, 10:00 KST, DEPTH 1980 , COLOR 3, TRANS. 12.0,																	
WAVE SW 3, SWELL SW 1, WIND SW 3, BARO 1000.5, AIR TEMP. DRY 11.8, WET , CLOUD. TYPE CI, AMT 03, WEATHER BC.																	
0	12.68	34.499	*****							0	12.68	34.499	*****	26.08	193	193	0.0000
10	12.64	34.505	*****							10	12.64	34.505	*****	26.10	192	192	0.0192
20	12.39	34.512	*****							20	12.39	34.512	*****	26.15	187	187	0.0382
30	11.44	34.462	*****							30	11.44	34.462	*****	26.29	173	174	0.0563
50	9.11	34.379	*****							50	9.11	34.379	*****	26.63	141	142	0.0879
74	6.39	34.231	*****							75	6.31	34.226	*****	26.92	114	114	0.1201
98	4.52	34.130	*****							100	4.13	34.103	*****	27.08	099	099	0.1470
105	3.16	34.036	*****							125	2.85	34.045	*****	27.15	091	092	0.1710
124	2.86	34.047	*****							150	2.81	34.016	*****	27.13	093	094	0.1943
168	2.79	33.996	*****							200	1.67	34.006	*****	27.22	085	086	0.2394
213	1.22	34.011	*****							250	1.20	34.023	*****	27.26	081	081	0.2814
254	1.20	34.025	*****							300	1.11	34.005	*****	27.26	082	082	0.3224
344	1.04	33.986	*****							400	0.93	34.032	*****	27.29	079	079	0.4032
429	0.88	34.057	*****														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY
KOREA ,CHUN MA SAN , STATION 106-11 , 37-53.7. N, 131-15.1. E, APR. 8.1982, 07:10 KST, DEPTH 2070 , COLOR 4, TRANS. 13.5, WAVE W 2, SWELL W 1, WIND W 2, BARO 1001. , AIR TEMP. DRY 14.8, WET , CLOUD. TYPE CI, AMT 02, WEATHER B ,																	
0	11.70	34.432	*****							0	11.70	34.432	*****	26.22	180	180	0.0000
10	10.85	34.434	*****							10	10.85	34.434	*****	26.38	165	165	0.0172
20	10.62	34.439	*****							20	10.62	34.439	*****	26.42	161	161	0.0336
30	10.48	34.443	*****							30	10.48	34.443	*****	26.45	158	159	0.0496
50	5.56	34.175	*****							50	5.56	34.175	*****	26.97	109	109	0.0785
75	3.16	34.046	*****							75	3.16	34.046	*****	27.13	094	094	0.1020
98	2.05	34.024	*****							100	2.01	34.023	*****	27.21	087	087	0.1247
122	1.63	34.015	*****							125	1.61	34.015	*****	27.23	084	084	0.1462
147	1.47	34.019	*****							150	1.45	34.020	*****	27.24	083	083	0.1672
196	1.21	34.044	*****							200	1.20	34.048	*****	27.28	079	079	0.2080
245	1.12	34.096	*****							250	1.09	34.090	*****	27.33	075	075	0.2468
292	0.89	34.048	*****							300	1.02	34.048	*****	27.30	078	078	0.2854
390	2.58	34.051	*****							400	2.34	34.052	*****	27.20	087	088	0.3691
486	0.32	34.064	*****														

6月(June)

KOREA ,CHUN MA SAN , STATION 106-02 , 37-53.7. N, 128-52.5. E, JUN. 7.1982, 03:50 KST, DEPTH 58 , COLOR , TRANS. WAVE SW 1, SWELL SW 1, WIND W 1, BARO 1002. , AIR TEMP. DRY 16.0, WET , CLOUD. TYPE CI, AMT 02, WEATHER B ,																	
0	16.99	34.099	*****							0	16.99	34.099	*****	24.84	311	311	0.0000
10	15.28	34.100	*****							10	13.28	34.100	*****	25.65	234	234	0.0272
20	10.45	34.100	*****							20	10.45	34.100	*****	26.19	183	183	0.0481
30	3.93	34.104	*****							30	3.93	34.104	*****	27.10	097	097	0.0622
50	2.74	34.100	*****							50	2.74	34.100	*****				

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA ,CHUN MA SAN , STATION 106-03 , 37-53.7. N, 128-57.2. E, JUN. 7.1982, 02:30 KST, DEPTH 320 , COLOR , TRANS.

WAVE SW 1, SWELL SW 1, WIND SW 1, BARO 1002. , AIR TEMP. DRY 16.0, WET , CLOUD. TYPE CI, AMT 01, WEATHER B ,

0	14.93	34.063	*****							0	14.93	34.063	*****	25.28	269	269	0.0000
10	13.93	34.077	*****							10	13.93	34.077	*****	25.50	248	248	0.0259
20	8.76	34.170	*****							20	8.76	34.170	*****	26.52	151	151	0.0459
30	5.85	34.170	*****							30	5.85	34.170	*****	26.93	112	112	0.0591
50	3.33	34.098	*****							50	3.33	34.098	*****	27.15	092	092	0.0796
75	2.42	34.095	*****							75	2.42	34.095	*****	27.23	084	084	0.1017
99	2.10	34.100	*****							100	2.09	34.100	*****	27.26	081	081	0.1226
123	1.87	34.111	*****							125	1.85	34.111	*****	27.29	079	079	0.1427
146	1.69	34.118	*****							150	1.67	34.119	*****	27.31	077	077	0.1623
174	1.45	34.135	*****							200	1.41	34.130	*****	27.34	074	074	0.2004
241	1.16	34.102	*****							250	1.09	34.104	*****	27.34	074	074	0.2377
287	0.84	34.113	*****														

KOREA ,CHUN MA SAN , STATION 106-04 , 37-53.7. N, 129-03.8. E, JUN. 7.1982, 00:55 KST, DEPTH 710 , COLOR , TRANS.

WAVE W 1, SWELL W 1, WIND SW 1, BARO 1003. , AIR TEMP. DRY 17.0, WET , CLOUD. TYPE CI, AMT 03, WEATHER BC,

0	15.41	34.117	*****							0	15.41	34.117	*****	25.22	275	275	0.0000
10	15.40	34.135	*****							10	15.40	34.135	*****	25.23	274	274	0.0275
20	11.35	34.180	*****							20	11.35	34.180	*****	26.09	193	193	0.0508
30	6.72	34.209	*****							30	6.72	34.209	*****	26.85	120	120	0.0665
50	4.08	34.129	*****							50	4.08	34.129	*****	27.10	096	096	0.0883
75	2.62	34.121	*****							75	2.62	34.121	*****	27.23	084	084	0.1110
99	2.31	34.102	*****							100	2.29	34.102	*****	27.25	083	083	0.1319
174	2.00	34.121	*****							125	1.98	34.120	*****	27.29	079	079	0.1523

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

149	1.53	34.109	*****							150	1.52	34.109	*****	27.31	077	077	0.1719
198	1.27	34.124	*****							200	1.26	34.124	*****	27.34	074	074	0.2097
248	1.13	34.128	*****							250	1.11	34.127	*****	27.35	072	073	0.2466
296	0.78	34.122	*****							300	0.77	34.121	*****	27.37	071	071	0.2827
398	0.57	34.118	*****							400	0.56	34.118	*****	27.38	070	070	0.3534
489	0.48	34.126	*****														

KOREA , CHUN MA SAN , STATION 106-05 , 37-53.7. N, 129-22.1. E, JUN. 6.1982, 22:10 KST, DEPTH 1120 , COLOR , TRANS.

WAVE SE 2, SWELL SE 1, WIND SE 2, BARO 1003. , AIR TEMP. DRY 17.0, WET , CLOUD. TYPE CI, AMT O2, WEATHER B ,

0	16.28	34.322	*****							0	16.28	34.322	*****	25.18	279	279	0.0000
10	12.87	34.388	*****							10	12.87	34.388	*****	25.96	205	205	0.0242
20	8.87	34.377	*****							20	8.87	34.377	*****	26.67	138	138	0.0414
30	5.85	34.248	*****							30	5.85	34.248	*****	26.99	107	107	0.0536
50	3.38	34.122	*****							50	3.38	34.122	*****	27.17	090	090	0.0734
75	2.59	34.098	*****							75	2.59	34.098	*****	27.22	085	085	0.0958
99	2.34	34.098	*****							100	2.32	34.098	*****	27.24	083	083	0.1167
130	1.73	34.098	*****							125	1.82	34.098	*****	27.28	079	080	0.1372
154	1.56	34.110	*****							150	1.58	34.108	*****	27.31	077	077	0.1569
203	1.18	34.109	*****							200	1.20	34.109	*****	27.33	074	075	0.1951
251	0.88	34.122	*****							250	0.88	34.121	*****	27.36	072	071	0.2319
298	0.71	34.117	*****							300	0.70	34.116	*****	27.37	071	071	0.2677
395	0.38	34.115	*****							400	0.37	34.114	*****	27.39	069	069	0.3379
493	0.36	34.110	*****														

OBSERVED										INTERPOLATED					CALCULATED		
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY

KOREA ,CHUN MA SAN , STATION 106-06 , 37-53.7. N, 129-41.3. E, JUN. 6.1982, 19:25 KST, DEPTH 1620 , COLOR , TRANS. ,
 WAVE SE 3, SWELL SE 1, WIND SE 3, BARO 1003. , AIR TEMP. DRY 19.5, WET , CLOUD. TYPE CU, AMT 04, WEATHER BC,
 0 17.09 34.356 ***** 0 17.09 34.356 ***** 25.01 295 294 0.0000.
 10 16.48 34.363 ***** 10 16.48 34.363 ***** 25.16 281 281 0.0288
 20 14.81 34.358 ***** 20 14.81 34.358 ***** 25.53 245 246 0.0551
 30 13.87 34.397 ***** 30 13.87 34.397 ***** 25.76 223 224 0.0786
 54 11.16 34.375 ***** 50 11.61 34.378 ***** 26.19 182 183 0.1195
 78 6.33 34.238 ***** 75 6.93 34.255 ***** 26.86 120 120 0.1576
 101 3.55 34.100 ***** 100 3.67 34.106 ***** 27.13 094 095 0.1845
 136 1.84 34.105 ***** 125 2.39 34.103 ***** 27.24 083 084 0.2049
 162 1.86 34.097 ***** 150 1.86 34.100 ***** 27.28 080 080 0.2275
 208 1.24 34.096 ***** 200 1.34 34.096 ***** 27.31 076 076 0.2668
 253 1.09 34.112 ***** 250 1.10 34.110 ***** 27.34 074 074 0.3046
 301 0.74 34.111 ***** 300 0.74 34.111 ***** 27.36 072 071 0.3411
 327 0.48 34.115 ***** 400 0.47 34.114 ***** 27.38 070 069 0.4121
 491 0.35 34.104 *****

KOREA ,CHUN MA SAN , STATION 106-07 , 37-53.7. N, 130-00.0. E, JUN. 6.1982, 16:40 KST, DEPTH 1060 , COLOR 3, TRANS. 16.0,
 WAVE SE 3, SWELL SE 2, WIND SE 3, BARO 1004. , AIR TEMP. DRY 19.5, WET , CLOUD. TYPE CI, AMT 04, WEATHER BC,
 0 17.86 34.308 ***** 0 17.86 34.308 ***** 24.79 316 316 0.0000
 10 17.81 34.320 ***** 10 17.81 34.320 ***** 24.81 314 314 0.0315
 20 16.49 34.317 ***** 20 16.49 34.317 ***** 25.12 284 284 0.0614
 30 15.74 34.316 ***** 30 15.74 34.316 ***** 25.29 268 269 0.0891
 53 14.96 34.409 ***** 50 15.06 34.396 ***** 25.51 248 249 0.1410
 77 13.33 34.449 ***** 75 13.46 34.445 ***** 25.88 212 214 0.1989

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
100	11.28	34.410	*****							100	11.28	34.410	*****	26.28	174	176	0.2478
139	7.01	34.312	*****							125	8.54	34.347	*****	26.69	135	137	0.2870
163	5.20	34.169	*****							150	6.18	34.246	*****	26.95	111	112	0.3183
210	3.00	34.098	*****							200	3.46	34.113	*****	27.15	092	093	0.3699
254	1.83	34.110	*****							250	1.93	34.108	*****	27.28	079	080	0.4134
296	1.33	34.126	*****							300	1.32	34.125	*****	27.34	074	074	0.4522
388	1.11	34.118	*****							400	1.08	34.117	*****	27.35	073	073	0.5265
475	0.92	34.117	*****														

KOREA ;CHUN MA SAN ; STATION 106-08 , 37-53.7. N, 130-18.9. E, JUN. 6.1982, 14:00 KST, DEPTH 1800 , COLOR 2, TRANS. 23.5,
 WAVE SE 3, SWELL SE 1, WIND SE 3, BARO 1005. , AIR TEMP. DRY 22.0, WET ; CLOUD. TYPE CI, AMT 04, WEATHER BC,
 0 18.50 34.466 ***** 24.75 319 319 0.0000
 10 18.16 34.478 ***** 24.85 311 311 0.0315
 20 17.79 34.476 ***** 24.94 302 302 0.0622
 30 16.04 34.536 ***** 25.40 258 259 0.0903
 50 14.86 34.553 ***** 25.67 232 233 0.1396
 75 13.65 34.546 ***** 25.92 208 210 0.1951
 99 11.66 34.559 ***** 26.33 169 171 0.2429
 131 9.55 ***** 26.56 148 150 0.2832
 158 6.65 34.341 ***** 26.87 119 121 0.3172
 205 4.27 34.117 ***** 27.06 100 102 0.3730
 252 1.93 34.106 ***** 27.27 080 081 0.4189
 299 1.31 34.106 ***** 27.32 075 076 0.4583
 396 0.54 34.108 ***** 27.37 071 070 0.5318
 492 0.40 34.112 *****

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA ,CHUN MA SAN , STATION 106-09 , 37-53.7. N, 130-37.7. E, JUN. 6.1982, 10:45 KST, DEPTH 2250 , COLOR 2, TRANS. 26.0, WAVE SE 2, SWELL SE 1, WIND SE 3, BARO 1008. , AIR TEMP. DRY 22.0, WET , CLOUD. TYPE ST, AMT 01, WEATHER B ,																	
0	17.82	34.511	*****							0	17.82	34.511	*****	24.96	300	300	0.0000
10	17.31	34.540	*****							10	17.31	34.540	*****	25.10	286	286	0.0273
20	16.78	34.536	*****							20	16.78	34.536	*****	25.22	275	275	0.0574
30	15.53	34.573	*****							30	15.53	34.573	*****	25.54	245	245	0.0835
50	14.32	34.580	*****							50	14.32	34.580	*****	25.81	219	220	0.1301
75	12.51	34.577	*****							75	12.51	34.577	*****	26.18	184	186	0.1810
99	10.99	34.545	*****							100	10.91	34.540	*****	26.45	158	160	0.2244
126	8.88	34.415	*****							125	8.95	34.419	*****	26.69	136	138	0.2618
151	5.48	34.202	*****							150	5.61	34.210	*****	26.99	107	108	0.2926
199	2.66	34.103	*****							200	2.63	34.103	*****	27.22	085	086	0.3415
247	1.60	34.106	*****							250	1.58	34.106	*****	27.30	077	078	0.3826
294	1.30	34.111	*****							300	1.25	34.112	*****	27.33	075	075	0.4210
390	0.65	34.134	*****							400	0.64	34.133	*****	27.39	069	069	0.4934
485	0.58	34.131	*****														
KOREA ,CHUN MA SAN , STATION 106-10 , 37-53.7. N, 130-56.5. E, JUN. 6.1982, 07:50 KST, DEPTH 1980 , COLOR 4, TRANS. 13.0, WAVE SE 3, SWELL SE 1, WIND SE 3, BARO 1008. , AIR TEMP. DRY 21.5, WET , CLOUD. TYPE ST, AMT 01, WEATHER B ,																	
0	16.24	34.402	*****							0	16.24	34.402	*****	25.25	272	272	0.0000
10	15.95	34.404	*****							10	15.95	34.404	*****	25.31	266	266	0.0269
20	14.93	34.422	*****							20	14.93	34.422	*****	25.56	243	243	0.0524
30	14.25	34.389	*****							30	14.25	34.389	*****	25.68	232	232	0.0763
50	13.59	34.449	*****							50	13.59	34.449	*****	25.86	214	215	0.1211
75	9.00	34.340	*****							75	9.00	34.340	*****	26.62	142	143	0.1660

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
99	6.66	34.275	*****							100	6.59	34.268	*****	26.91	114	115	0.1985
124	5.11	34.123	*****							125	5.01	34.123	*****	27.00	106	107	0.2265
148	2.75	34.123	*****							150	2.70	34.122	*****	27.23	084	085	0.2507
194	1.65	34.120	*****							200	1.63	34.119	*****	27.31	076	077	0.2913
242	1.49	34.115	*****							250	1.37	34.113	*****	27.32	075	075	0.3296
289	0.84	34.109	*****							300	0.79	34.110	*****	27.36	072	072	0.3667
382	0.48	34.118	*****							400	0.48	34.116	*****	27.38	070	069	0.4378
479	0.48	34.112	*****														

KOREA ; CHUN MA SAN ; STATION 106-11 , 37-53.7. N, 131-15.1. E, JUN. 6.1982, 04:55 KST, DEPTH 2070 , COLOR , TRANS.

WAVE SE 2, SWELL SE 1, WIND SE 2, BARO 1008. ; AIR TEMP. DRY 21.3, WET , CLOUD. TYPE ST, AMT 03, WEATHER BC.

0	16.34	34.411	*****							0	16.34	34.411	*****	25.23	274	274	0.0000
10	15.98	34.433	*****							10	15.98	34.433	*****	25.33	265	265	0.0269
20	14.27	34.459	*****							20	14.27	34.459	*****	25.73	227	227	0.0516
30	13.38	34.473	*****							30	13.38	34.473	*****	25.92	208	209	0.0734
50	8.02	34.323	*****							50	8.02	34.323	*****	26.76	129	130	0.1074
74	4.85	34.193	*****							75	4.79	34.190	*****	27.07	099	099	0.1361
98	3.48	34.123	*****							100	3.40	34.120	*****	27.16	091	091	0.1601
127	2.40	34.091	*****							125	2.47	34.093	*****	27.22	085	085	0.1822
153	2.18	34.100	*****							150	2.20	34.098	*****	27.25	082	083	0.2033
205	1.76	34.102	*****							200	1.80	34.101	*****	27.28	079	079	0.2440
248	1.16	34.110	*****							250	1.14	34.107	*****	27.34	074	074	0.2827
291	0.85	34.059	*****							300	0.81	34.062	*****	27.32	076	076	0.3204
397	0.47	34.103	*****							400	0.46	34.103	*****	27.37	071	070	0.3938
490	0.28	34.118	*****														

OBSERVED										INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY	

8月(August)

KOREA ,CHUN MA SAN , STATION 106-02 , 37-53.7. N. 128-52.5. E, AUG.12.1982, 05:10 KST, DEPTH 58 , COLOR , TRANS. ,																	
WAVE SW 2, SWELL NW 1, WIND NW 2, BARO 1007.5, AIR TEMP. DRY 25.8, WET , CLOUD. TYPE CU, AMT 10, WEATHER C ,																	
0	25.60	33.222	****							0	25.60	33.222	****	21.83	598	598	0.0000
10	19.57	33.378	****							10	19.57	33.378	****	23.65	424	424	0.0511
20	16.86	33.491	****							20	16.86	33.491	****	24.41	353	353	0.0900
30	15.23	33.505	****							30	15.23	33.505	****	24.79	316	317	0.1236
50	10.92	33.614	****							50	10.92	33.614	****	25.73	227	228	0.1781

KOREA ,CHUN MA SAN , STATION 106-03 , 37-53.7. N. 128-57.2. E, AUG.12.1982, 01:20 KST, DEPTH 320 , COLOR , TRANS. ,																	
WAVE SW 1, SWELL SW 1, WIND SW 1, BARO 1006. , AIR TEMP. DRY 25.5, WET , CLOUD. TYPE CU, AMT 07, WEATHER BC,																	
0	25.49	33.211	****							0	25.49	33.211	****	21.86	596	595	0.0000
10	21.28	33.271	****							10	21.28	33.271	****	23.12	475	475	0.0535
20	17.10	33.570	****							20	17.10	33.570	****	24.41	352	353	0.0950
30	16.41	33.581	****							30	16.41	33.581	****	24.58	336	337	0.1295
50	13.38	33.851	****							50	13.38	33.851	****	25.44	254	255	0.1887
75	6.95	33.870	****							75	6.95	33.870	****	26.55	148	149	0.2394
106	5.97	33.905	****							100	6.15	33.898	****	26.68	136	137	0.2753
131	5.65	33.906	****							125	5.72	33.905	****	26.74	131	132	0.3091
154	3.95	33.922	****							150	4.24	33.919	****	26.92	114	115	0.3401
202	2.77	33.966	****							200	2.81	33.964	****	27.09	097	098	0.3936
250	1.94	34.061	****							250	1.94	34.061	****	27.24	083	084	0.4393
297	0.63	34.007	****														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA CHUN MA SAN , STATION 106-04 , 37-53.7. N, 129-03.8. E, AUG.11.1982, 23:30 KST, DEPTH 710 , COLOR , TRANS.																	
WAVE SW 1, SWELL SW 1, WIND SW 1, BARD 1006. , AIR TEMP. DRY 26.1, WET , CLOUD. TYPE , AMT , WEATHER ,																	
0	25.71	33.119	*****							0	25.71	33.119	*****	21.72	609	609	0.0000
10	20.24	33.522	*****							10	20.24	33.522	*****	23.59	431	431	0.0520
20	15.85	33.533	*****							20	15.85	33.533	*****	24.67	327	328	0.0899
30	14.03	33.544	*****							30	14.03	33.544	*****	25.07	289	290	0.1208
50	12.90	33.535	*****							50	12.90	33.535	*****	25.29	268	269	0.1768
75	7.94	33.718	*****							75	7.94	33.718	*****	26.29	173	174	0.2323
101	7.44	33.730	*****							100	7.45	33.729	*****	26.37	166	167	0.2759
125	4.66	33.773	*****							125	4.66	33.773	*****	26.76	129	130	0.3122
153	2.68	33.800	*****							150	2.89	33.797	*****	26.95	111	111	0.3425
202	2.39	33.804	*****							200	2.40	33.803	*****	27.00	106	107	0.3972
250	1.75	33.874	*****							250	1.75	33.874	*****	27.11	096	096	0.4481
298	1.27	33.908	*****							300	1.25	33.908	*****	27.17	090	090	0.4950
395	0.71	33.915	*****							400	0.69	33.921	*****	27.21	086	085	0.5834
491	0.44	34.040	*****														

KOREA CHUN MA SAN , STATION 106-05 , 37-53.7. N, 129-22.1. E, AUG.11.1982, 20:40 KST, DEPTH 1120 , COLOR , TRANS.																	
WAVE SW 1, SWELL SW 1, WIND SW 1, BARD 1005. , AIR TEMP. DRY 26.2, WET , CLOUD. TYPE , AMT , WEATHER ,																	
0	25.62	33.098	*****							0	25.62	33.098	*****	21.74	608	607	0.0000
10	19.26	33.456	*****							10	19.26	33.456	*****	23.79	411	411	0.0509
20	15.42	33.460	*****							20	15.42	33.460	*****	24.71	324	324	0.0877
30	13.15	33.468	*****							30	13.15	33.468	*****	25.19	278	278	0.1179
50	9.53	33.508	*****							50	9.53	33.508	*****	25.88	212	213	0.1671
75	5.41	33.566	*****							75	5.41	33.566	*****	26.51	153	153	0.2129

OBSERVED										INTERPOLATED					CALCULATED		
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
99	3.69	33.723	*****							100	3.65	33.724	*****	26.82	123	123	0.2476
127	2.73	33.770	*****							125	2.79	33.766	*****	26.94	112	112	0.2772
152	2.25	33.890	*****							150	2.28	33.880	*****	27.07	099	100	0.3038
201	1.67	34.000	*****							200	1.68	33.997	*****	27.21	086	086	0.3506
250	1.33	34.056	*****							250	1.33	34.056	*****	27.28	079	080	0.3923
298	0.91	34.060	*****							300	0.90	34.059	*****	27.31	076	076	0.4315
396	0.76	34.059	*****							400	0.74	34.058	*****	27.32	076	075	0.5079
493	0.48	34.053	*****														
KOREA ,CHUN MA SAN , STATION 106-06 , 37-53.7. N, 129-41.3. E, AUG.11.1982, 17:50 KST, DEPTH 1620 , COLOR , TRANS.																	
WAVE S 2, SWELL S 1, WIND S 2, BARO 1005. , AIR TEMP. DRY 29.1, WET , CLOUD. TYPE CI, AMT 03, WEATHER BC,																	
0	26.34	33.211	*****							0	26.34	33.211	*****	21.60	621	621	0.0000
10	21.19	33.923	*****							10	21.19	33.923	*****	23.64	426	426	0.0523
20	20.39	33.933	*****							20	20.39	33.933	*****	23.86	404	405	0.0939
30	18.03	34.184	*****							30	18.03	34.184	*****	24.65	329	329	0.1307
50	17.43	34.172	*****							50	17.43	34.172	*****	24.79	316	317	0.1954
75	14.68	34.159	*****							75	14.68	34.159	*****	25.41	257	259	0.2675
98	7.29	34.148	*****							100	7.01	34.142	*****	26.76	129	130	0.3163
130	2.91	34.057	*****							125	3.59	34.071	*****	27.11	096	097	0.3448
159	2.61	34.030	*****							150	2.70	34.038	*****	27.16	091	091	0.3684
207	1.96	34.064	*****							200	2.05	34.059	*****	27.23	084	085	0.4126
254	1.73	34.065	*****							250	1.93	34.064	*****	27.25	083	083	0.4548
301	0.88	34.051	*****							300	0.90	34.051	*****	27.31	077	077	0.4952
397	0.59	34.052	*****							400	0.58	34.050	*****	27.32	075	075	0.5716
472	0.41	34.013	*****														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA ,CHUN MA SAN , STATION 106-07 , 37-53.7. N, 130-00.0. E, AUG.11.1982, 15:00 KST, DEPTH 1060 , COLOR 3, TRANS. 23.0.
 WAVE S 3, SWELL S 1, WIND S 3, BARO 1003. , AIR TEMP. DRY 28.0, WET , CLOUD. TYPE CI, AMT 06, WEATHER BC,

0	26.65	33.142	*****							0	26.65	33.142	*****	21.45	635	635	0.0000
10	23.46	33.858	*****							10	23.46	33.858	*****	22.95	491	491	0.0563
20	17.47	34.135	*****							20	17.47	34.135	*****	24.75	319	320	0.0969
30	12.78	34.137	*****							30	12.78	34.137	*****	25.78	222	222	0.1241
50	6.16	34.067	*****							50	6.16	34.067	*****	26.81	124	124	0.1588
75	5.38	34.068	*****							75	5.38	34.068	*****	26.91	115	115	0.1888
98	3.57	34.077	*****							100	3.47	34.074	*****	27.12	095	095	0.2152
131	2.03	34.042	*****							125	2.31	34.048	*****	27.20	087	087	0.2381
154	1.78	34.047	*****							150	1.82	34.047	*****	27.24	083	083	0.2596
203	1.51	34.050	*****							200	1.52	34.049	*****	27.26	081	081	0.3010
251	1.21	34.063	*****							250	1.21	34.062	*****	27.29	078	078	0.3411
299	1.08	34.054	*****							300	1.07	34.054	*****	27.30	078	078	0.3804
396	0.72	34.055	*****							400	0.71	34.055	*****	27.32	076	075	0.4576
491	0.56	34.060	*****														

KOREA ,CHUN MA SAN , STATION 106-08 , 37-53.7. N, 130-18.9. E, AUG.11.1982, 11:50 KST, DEPTH 1800 , COLOR 3, TRANS. 23.0,
 WAVE SW 2, SWELL SW 1, WIND SW 1, BARO 1003. , AIR TEMP. DRY 28.6, WET , CLOUD. TYPE ST, AMT 08, WEATHER C ,

0	27.08	33.106	*****							0	27.08	33.106	*****	21.29	651	651	0.0000
10	21.08	33.361	*****							10	21.08	33.361	*****	23.24	464	464	0.0537
20	18.01	33.470	*****							20	18.01	33.470	*****	24.11	380	381	0.0980
30	17.63	33.734	*****							30	17.63	33.734	*****	24.41	352	353	0.1347
50	7.12	33.961	*****							50	7.12	33.961	*****	26.60	144	144	0.1845
75	4.22	34.087	*****							75	4.22	34.087	*****	27.05	101	101	0.2153

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
101	3.87	34.196	*****							100	3.88	34.191	*****	27.17	090	090	0.2394
140	3.23	34.044	*****							125	3.47	34.102	*****	27.14	093	093	0.2624
162	2.34	34.041	*****							150	2.82	34.042	*****	27.15	091	092	0.2857
209	1.92	34.063	*****							200	2.00	34.058	*****	27.24	084	084	0.3300
255	1.49	34.097	*****							250	1.53	34.093	*****	27.30	078	078	0.3708
301	0.98	34.046	*****							300	0.99	34.047	*****	27.30	078	078	0.4101
376	0.48	34.052	*****							400	0.47	34.051	*****	27.33	075	074	0.4866
489	0.43	34.048	*****														

KOREA .CHUN MA SAN . STATION 106-09 . 37-53.7. N, 130-37.7. E, AUG.11.1982, 09:00 KST, DEPTH 2250 . COLOR 3, TRANS. 22.0.

WAVE SW 2, SWELL SW 1, WIND SW 1, BARO 1005. , AIR TEMP. DRY 28.5, WET . CLOUD. TYPE C1, AMT 02, WEATHER B .

0	26.64	32.996	*****							0	26.64	32.996	*****	21.34	645	645	0.0000
10	22.81	33.016	*****							10	22.81	33.016	*****	22.50	534	534	0.0590
20	20.69	33.044	*****							20	20.69	33.044	*****	23.11	477	477	0.1096
30	17.27	34.379	*****							30	17.27	34.379	*****	24.99	297	298	0.1484
50	15.16	34.400	*****							50	15.16	34.400	*****	25.49	250	251	0.2033
75	13.74	34.380	*****							75	13.74	34.380	*****	25.78	222	224	0.2627
100	8.89	34.300	*****							100	8.89	34.300	*****	26.60	144	145	0.3090
130	5.80	34.200	*****							125	6.31	34.216	*****	26.91	115	116	0.3418
154	3.78	34.150	*****							150	4.11	34.158	*****	27.12	094	095	0.3683
202	2.89	34.122	*****							200	2.92	34.123	*****	27.21	086	087	0.4142
251	1.98	34.098	*****							250	1.99	34.098	*****	27.27	081	081	0.4566
299	1.23	34.060	*****							300	1.22	34.059	*****	27.29	078	075	0.4968
377	0.77	34.047	*****							400	0.77	34.047	*****	27.31	077	076	0.5748
494	0.46	34.069	*****														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY

KOREA , CHUN MA SAN , STATION 106-10 , 37-53.7. N, 130-56.5. E, AUG.11.1982, 06:00 KST, DEPTH 1980 , COLOR , TRANS.

WAVE SW 2, SWELL SW 2, WIND SW 2, BARO 1005. , AIR TEMP. DRY 26.9, WET , CLOUD. TYPE CI, AMT 02, WEATHER B ,

0	26.67	33.020	*****							0	26.67	33.020	*****	21.34	645	645	0.0000
10	23.93	34.030	*****							10	23.93	34.030	*****	22.95	492	492	0.0568
20	21.69	34.060	*****							20	21.69	34.060	*****	23.61	429	429	0.1030
30	17.77	34.050	*****							30	17.77	34.050	*****	24.71	323	324	0.1407
50	16.87	34.076	*****							50	16.87	34.076	*****	24.05	310	311	0.2043
75	15.82	34.270	*****							75	15.82	34.270	*****	25.24	273	275	0.2777
100	8.85	34.182	*****							100	8.85	34.182	*****	26.52	152	153	0.3313
125	5.74	34.069	*****							125	5.62	34.067	*****	26.88	117	119	0.3655
153	4.01	34.043	*****							150	4.18	34.045	*****	27.03	104	105	0.3935
202	2.93	34.055	*****							200	2.97	34.054	*****	27.15	092	093	0.4431
251	1.83	34.060	*****							250	1.85	34.059	*****	27.25	083	083	0.4873
300	1.01	34.076	*****							300	1.01	34.076	*****	27.32	076	076	0.5273
398	0.58	34.049	*****							400	0.57	34.048	*****	27.32	075	075	0.6032
495	0.33	34.047	*****														

KOREA , CHUN MA SAN , STATION 106-11 , 37-53.7. N, 131-15.1. E, AUG.11.1982, 03:00 KST, DEPTH 2070 , COLOR , TRANS.

WAVE SE 1, SWELL SE 1, WIND SE 1, BARO 1004. , AIR TEMP. DRY 26.8, WET , CLOUD. TYPE , AMT , WEATHER ,

0	26.67	33.399	*****							0	26.67	33.399	*****	21.64	617	617	0.0000
10	24.28	34.316	*****							10	24.28	34.316	*****	23.06	481	481	0.0549
20	23.54	34.345	*****							20	23.54	34.345	*****	23.30	458	459	0.1020
30	18.37	34.370	*****							30	18.37	34.370	*****	24.71	323	324	0.1411
50	15.71	34.380	*****							50	15.71	34.380	*****	25.35	263	264	0.2000
75	14.89	34.340	*****							75	14.89	34.340	*****	25.50	248	250	0.2444

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
99	10.74	34.077	*****							100	10.86	34.076	*****	26.11	190	192	0.3198
132	8.39	34.088	*****							125	8.73	34.089	*****	26.43	160	162	0.3641
155	5.81	34.053	*****							150	6.37	34.060	*****	26.78	127	129	0.4006
204	2.88	34.050	*****							200	3.11	34.050	*****	27.13	093	094	0.4566
252	1.78	34.056	*****							250	2.01	34.055	*****	27.23	084	085	0.5016
298	1.19	34.038	*****							300	1.17	34.038	*****	27.28	080	080	0.5430
395	0.65	34.043	*****							400	0.64	34.043	*****	27.32	076	076	0.6214
489	0.58	34.045	*****														

10月(October)

KOREA ,CHUN MA SAN , STATION 106-02 , 37-53.7. N, 128-52.5. E, OCT. 8.1982, 02:40 KST, DEPTH 58 , COLOR , TRANS.
 WAVE SW 1, SWELL SW 1, WIND SW 2, BARO 1011.5. AIR TEMP. DRY 19.3. WET , CLOUD. TYPE ST, AMT 06. WEATHER BC.
 0 20.83 33.106 5.20 20.83 33.106 5.20 23.12 476 475 0.0000
 10 20.32 33.169 5.39 20.32 33.169 5.39 23.30 458 458 0.0467
 20 15.08 33.773 5.33 20 15.08 33.773 5.33 25.02 294 294 0.0843
 30 10.18 34.000 5.20 30 10.18 34.000 5.20 26.16 186 186 0.1084
 50 4.07 34.095 6.34 50 4.07 34.095 6.34 27.08 099 099 0.1370

KOREA ,CHUN MA SAN , STATION 106-03 , 37-53.7. N, 128-57.2. E. OCT. 8.1982, 01:40 KST, DEPTH 320 , COLOR , TRANS.
 WAVE SW 1, SWELL SW 1, WIND SW 2, BARO 1012. , AIR TEMP. DRY 19.3. WET . CLOUD. TYPE ST, AMT 06. WEATHER BC.
 0 20.65 33.070 5.20 20.65 33.070 5.20 23.14 474 473 0.0000
 10 20.23 33.130 5.11 10 20.23 33.130 5.11 23.29 459 459 0.0466
 20 15.65 33.613 5.69 20 15.65 33.613 5.69 24.78 317 318 0.0855
 30 9.52 34.214 5.58 30 9.52 34.214 5.58 26.43 160 160 0.1094
 50 6.61 34.181 6.34 50 6.61 34.181 6.34 26.84 121 121 0.1376

OBSERVED										INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY	

75	3.08	34.095	6.62							75	3.08	34.095	6.62	27.17	090	090	0.1641
109	2.37	34.056	6.62							100	2.55	34.066	6.62	27.20	087	088	0.1864
131	1.75	34.061	6.15							125	1.91	34.059	6.27	27.24	083	083	0.2079
155	1.54	34.070	6.20							150	1.58	34.068	6.18	27.27	080	080	0.2285
203	1.42	34.074	6.15							200	1.42	34.073	6.15	27.29	079	079	0.2684
250	1.04	34.077	6.06							250	1.04	34.077	6.06	27.32	076	076	0.3074
296	0.88	34.066	6.34														

KOREA ; CHUN MA SAN ; STATION 106-04 ; 37-53.7. N, 129-03.8. E, OCT. 8.1982, 00:20 KST, DEPTH 710 , COLOR , TRANS. ,

WAVE SW 1, SWELL SW 1, WIND SW 2, BARO 1012. , AIR TEMP. DRY 19.7, WET , CLOUD. TYPE CU, AMT 04, WEATHER BC,																	
0	20.61	32.955	5.22							0	20.61	32.955	5.22	23.06	481	481	0.0000
10	19.46	33.383	5.30							10	19.46	33.383	5.30	23.69	421	421	0.0451
20	17.15	33.561	5.77							20	17.15	33.561	5.77	24.39	354	354	0.0839
30	10.76	33.921	5.41							30	10.76	33.921	5.41	25.99	202	202	0.1118
50	5.21	34.125	6.15							50	5.21	34.125	6.15	26.97	108	109	0.1429
75	3.08	34.107	6.53							75	3.08	34.107	6.53	27.18	089	089	0.1678
99	2.18	34.064	6.46							100	2.16	34.064	6.44	27.23	085	085	0.1896
130	1.82	34.066	6.12							125	1.87	34.065	6.17	27.25	082	082	0.2106
158	1.67	34.066	6.06							150	1.71	34.066	6.07	27.26	081	081	0.2312
204	1.59	34.081	5.96							200	1.59	34.079	5.96	27.28	079	080	0.2716
252	1.06	34.063	6.25							250	1.08	34.063	6.23	27.30	077	077	0.3111
299	0.80	34.069	6.06							300	0.79	34.069	6.06	27.33	075	075	0.3493
394	0.57	34.082	6.25							400	0.56	34.082	6.24	27.35	073	072	0.4235
490	0.54	34.087	6.15														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY

KOREA , CHUN MA SAN , STATION 106-05 , 37-53.7. N, 129-22.1. E, OCT. 7.1982, 21:50 KST, DEPTH 1120 , COLOR , TRANS. ,

WAVE SW 2, SWELL SW 1, WIND SW 3, BARO 1012. , AIR TEMP. DRY 20.6, WET , CLOUD. TYPE CU, AMT 04, WEATHER BC,

0	21.20	33.156	5.25							0	21.20	33.156	5.25	23.05	481	481	0.0000
10	21.05	33.126	5.11							10	21.05	33.126	5.11	23.07	480	480	0.0480
20	14.27	33.821	5.14							20	14.27	33.821	5.14	25.23	274	274	0.0858
30	11.14	34.156	5.20							30	11.14	34.156	5.20	26.11	191	191	0.1091
50	8.88	34.172	5.96							50	8.88	34.172	5.96	26.50	153	154	0.1436
75	3.31	34.130	6.15							75	3.31	34.130	6.15	27.18	089	089	0.1741
98	2.91	34.105	6.22							100	2.89	34.103	6.21	27.20	087	088	0.1964
131	2.68	34.082	6.15							125	2.72	34.086	6.16	27.20	087	088	0.2184
155	2.19	34.072	6.06							150	2.29	34.074	6.07	27.22	085	085	0.2401
204	1.48	34.075	5.77							200	1.53	34.074	5.79	27.28	079	079	0.2815
252	1.01	34.067	5.68							250	1.02	34.067	5.68	27.31	077	077	0.3208
300	0.75	34.073	5.58							300	0.75	34.073	5.58	27.33	074	074	0.3588
397	0.42	34.071	5.49							400	0.41	34.071	5.50	27.35	073	072	0.4326
494	0.35	34.076	5.87														

KOREA , CHUN MA SAN , STATION 106-06 , 37-53.7. N, 129-41.3. E, OCT. 7.1982, 19:10 KST, DEPTH 1620 , COLOR , TRANS. ,

WAVE SW 2, SWELL SW 1, WIND SW 3, BARO 1012. , AIR TEMP. DRY 20.4, WET , CLOUD. TYPE CU, AMT 04, WEATHER BC,

0	22.02	32.667	4.92							0	22.02	32.667	4.92	22.46	538	538	0.0000
10	20.98	32.666	5.23							10	20.98	32.666	5.23	22.74	511	511	0.0525
20	20.17	32.792	5.11							20	20.17	32.792	5.11	23.05	483	483	0.1022
30	17.44	33.302	4.73							30	17.44	33.302	4.73	24.12	379	380	0.1454
50	13.18	34.215	4.88							50	13.18	34.215	4.88	25.76	223	224	0.2059
75	8.96	34.234	5.16							75	8.96	34.234	5.16	26.54	151	151	0.2529

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D DY

99	7.79	34.184	5.78							100	7.67	34.183	5.78	26.70	135	136	0.2889
136	3.52	34.160	5.98							125	4.78	34.167	5.92	27.06	101	102	0.3188
160	3.04	34.110	5.35							150	3.24	34.130	5.61	27.19	088	089	0.3427
208	2.31	34.066	6.12							200	2.43	34.073	5.99	27.21	086	087	0.3869
255	1.84	34.072	6.15							250	1.89	34.071	6.14	27.25	082	083	0.4294
301	1.47	34.072	5.96							300	1.47	34.072	5.96	27.28	079	079	0.4702
396	0.80	34.076	5.75							400	0.79	34.075	5.75	27.33	074	074	0.5476
491	0.66	34.074	5.84														

KOREA ,CHUN MA SAN , STATION 106-07 , 37-53.7. N, 130-00.0. E, OCT. 7.1982, 16:30 KST, DEPTH 1060 , COLOR 3, TRANS. 23.0.
WAVE SW 1, SWELL SW 1, WIND SW 3, BARO 1012. , AIR TEMP. DRY 21.1, WET , CLOUD. TYPE CU, AMT 03, WEATHER BC.

0	22.16	32.666	4.73							0	22.16	32.666	4.73	22.42	542	542	0.0000
10	22.07	32.635	5.02							10	22.07	32.635	5.02	22.42	542	542	0.0542
20	21.95	32.811	5.18							20	21.95	32.811	5.18	22.59	526	526	0.1077
30	21.65	33.131	4.83							30	21.65	33.131	4.83	22.91	495	496	0.1588
50	16.23	33.531	4.61							50	16.23	33.531	4.61	24.58	336	337	0.2422
75	14.22	34.274	5.02							75	14.22	34.274	5.02	25.59	239	241	0.3146
98	9.52	34.343	4.83							100	9.23	34.331	4.87	26.57	147	148	0.3634
131	4.77	34.147	5.58							125	5.63	34.182	5.44	26.97	109	110	0.3958
154	3.22	34.061	5.46							150	3.48	34.075	5.48	27.12	095	095	0.4216
203	2.22	34.082	6.15							200	2.28	34.080	6.10	27.23	084	085	0.4667
251	1.32	34.070	6.25							250	1.33	34.070	6.24	27.29	078	078	0.5080
299	0.99	34.125	5.96							300	0.98	34.124	5.95	27.36	072	072	0.5459
396	0.67	34.097	5.77							400	0.65	34.095	5.75	27.36	072	072	0.6184
491	0.43	34.069	5.44														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY
KOREA ,CHUN MA SAN , STATION 106-08 , 37-53.7. N, 130-18.9. E, OCT. 7.1982, 14:00 KST, DEPTH 1800 , COLOR 3, TRANS. 23.0, WAVE SW 1, SWELL SW 1, WIND SW 2, BARO 1012. , AIR TEMP. DRY 23.2, WET , CLOUD. TYPE CU, AMT 03, WEATHER BC,																	
0	21.82	33.194	4.73							0	21.82	33.194	4.73	22.91	495	495	0.0000
10	21.68	33.165	4.73							10	21.68	33.165	4.73	22.93	493	493	0.0494
20	21.52	33.172	4.73							20	21.52	33.172	4.73	22.98	489	489	0.0986
30	21.31	33.240	4.83							30	21.31	33.240	4.83	23.09	478	479	0.1470
50	16.02	33.581	4.35							50	16.02	33.581	4.35	24.67	328	329	0.2279
75	14.91	34.212	4.66							75	14.91	34.212	4.66	25.40	258	260	0.3016
100	12.66	34.333	4.45							100	12.66	34.333	4.45	25.96	205	207	0.3600
128	7.48	34.295	5.39							125	8.03	34.299	5.28	26.73	131	133	0.4027
153	5.62	*****	*****							150	5.84	34.212	5.29	26.97	109	111	0.4333
202	4.42	34.080	6.06							200	4.46	34.084	6.02	27.03	104	105	0.4875
250	1.90	34.080	6.06							250	1.90	34.080	6.06	27.26	081	082	0.5346
299	1.10	34.068	5.77							300	1.09	34.068	5.76	27.31	077	077	0.5746
397	0.61	34.074	5.68							400	0.60	34.073	5.67	27.34	074	073	0.6502
494	0.40	34.072	5.58														
KOREA ,CHUN MA SAN , STATION 106-09 , 37-53.7. N, 130-37.7. E, OCT. 7.1982, 11:20 KST, DEPTH 2250 , COLOR 3, TRANS. 23.0, WAVE SW 2, SWELL SW 1, WIND SW 3, BARO 1012.5, AIR TEMP. DRY 23.1, WET , CLOUD. TYPE CU, AMT 03, WEATHER BC,																	
0	22.21	32.954	4.73							0	22.21	32.954	4.73	22.62	523	522	0.0000
10	22.23	32.877	4.73							10	22.23	32.877	4.73	22.56	529	529	0.0526
20	22.19	33.181	4.73							20	22.19	33.181	4.73	22.80	506	506	0.1043
30	22.18	33.146	4.73							30	22.18	33.146	4.73	22.78	508	509	0.1551
50	21.14	33.250	4.49							50	21.14	33.250	4.49	23.14	473	474	0.2535
75	16.43	34.172	4.57							75	16.43	34.172	4.57	25.03	293	295	0.3499

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
98	15.26	34.403	4.35							100	14.62	34.415	4.37	25.62	237	240	0.4169
127	6.07	34.578	4.73							125	6.70	34.565	4.70	27.13	093	095	0.4588
150	3.85	34.145	5.49							150	3.85	34.145	5.49	27.14	093	094	0.4825
198	2.05	34.075	5.99							200	2.01	34.074	5.97	27.25	083	083	0.5270
245	1.17	34.074	5.58							250	1.14	34.074	5.58	27.31	077	077	0.5672
294	0.95	34.081	5.58							300	0.92	34.081	5.59	27.33	075	075	0.6054
392	0.56	34.082	5.77							400	0.55	34.082	5.76	27.35	073	072	0.6795
489	0.49	34.084	5.65														

KOREA .CHUN MA SAN ; STATION 106-10 , 37-53.7. N, 130-56.5. E, OCT. 7.1982, 08:50 KST, DEPTH 1980 , COLOR 3, TRANS. 22.0,
 WAVE SW 3, SWELL SW 1, WIND SW 3, BARO 1012.5, AIR TEMP. DRY 23.0, WET , CLOUD. TYPE CU, AMT 03, WEATHER BC,

0	21.57	32.783	5.39							0	21.57	32.783	5.39	22.67	518	518	0.0000
10	21.54	32.728	4.83							10	21.54	32.728	4.83	22.64	521	521	0.0520
20	21.46	32.738	4.83							20	21.46	32.738	4.83	22.67	519	519	0.1040
30	21.40	32.732	5.06							30	21.40	32.732	5.06	22.68	517	518	0.1559
50	21.36	32.832	4.92							50	21.36	32.832	4.92	22.77	509	510	0.2588
75	18.35	33.654	4.87							75	18.35	33.654	4.87	24.17	375	377	0.3699
100	14.47	34.295	4.68							100	14.47	34.295	4.68	25.56	243	245	0.4478
129	11.09	*****	*****							125	11.55	34.056	5.13	25.95	205	208	0.5045
153	9.45	34.180	5.37							150	9.65	34.159	5.35	26.37	166	169	0.5517
201	5.20	34.084	5.68							200	5.28	34.086	5.67	26.93	112	114	0.6226
248	2.11	34.068	5.68							250	2.09	34.068	5.68	27.14	084	084	0.6725
295	1.68	34.079	5.68							300	1.62	34.079	5.69	27.28	079	080	0.7139
391	0.71	34.091	5.92							400	0.69	34.091	5.92	27.35	073	073	0.7907
487	0.51	34.095	5.92														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA ,CHUN MA SAN , STATION 106-11 , 37-53.7. N, 131-15.1. E. OCT. 7.1982. 05:55 KST, DEPTH 2070 , COLOR , TRANS.																	
WAVE SW 3, SWELL SW 1, WIND SW 3, BARO 1012. , AIR TEMP. DRY 17.0, WET , CLOUD. TYPE CU, AMT 03, WEATHER BC,																	
0	21.80	32.811	5.39							0	21.80	32.811	5.39	22.63	522	522	0.0000
10	21.69	32.686	4.73							10	21.69	32.686	4.73	22.57	528	528	0.0523
20	21.61	32.684	4.82							20	21.61	32.684	4.82	22.59	526	527	0.1053
30	21.50	32.688	4.83							30	21.50	32.688	4.83	22.62	523	524	0.1579
50	17.80	33.764	5.99							50	17.80	33.764	5.99	24.39	354	355	0.2459
75	14.90	34.344	4.95							75	14.90	34.344	4.95	25.50	248	250	0.3217
100	12.07	34.408	5.11							100	12.07	34.408	5.11	26.13	189	191	0.3769
127	9.40	34.381	5.49							125	9.59	34.383	5.46	26.55	148	151	0.4196
151	7.74	34.283	5.49							150	7.80	34.287	5.49	26.76	129	131	0.4550
201	4.76	34.141	5.87							200	4.81	34.143	5.86	27.03	103	105	0.5142
247	4.14	34.130	5.92							250	4.02	34.128	5.91	27.11	096	098	0.5650
294	2.26	34.100	5.77							300	2.16	34.098	5.77	27.25	082	083	0.6104
390	0.80	34.074	5.87							400	0.76	34.076	5.86	27.33	074	074	0.6894
486	0.45	34.094	5.85														

12月(December)

KOREA ,CHUN MA SAN , STATION 106-02 , 37-53.7. N, 128-52.5. E. DEC.20.1982. 04:50 KST, DEPTH 58 , COLOR , TRANS.																	
WAVE NW 2, SWELL NW 1, WIND NW 2, BARO 1020. , AIR TEMP. DRY 6.1, WET , CLOUD. TYPE CI, AMT 03, WEATHER BC,																	
0	11.20	33.857	5.88							0	11.20	33.857	5.88	25.87	214	213	0.0000
10	11.50	33.834	5.98							10	11.50	33.834	5.98	25.79	221	221	0.0217
20	11.49	33.842	6.08							20	11.49	33.842	6.08	25.80	220	220	0.0438
30	10.23	33.911	6.08							30	10.23	33.911	6.08	26.08	193	194	0.0645
50	10.11	33.920	6.18							50	10.11	33.920	6.18	26.11	191	192	0.1032

12月(December)

OBSERVED										INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY	

KOREA : CHUN MA SAN , STATION 106-03 , 37-53.7. N, 128-57.2. E, DEC.20.1982, 03:40 KST, DEPTH 320 , COLOR , TRANS.
 WAVE W 2, SWELL W 1, WIND W 2, BARO 1020. , AIR TEMP. DRY 5.8, WET , CLOUD. TYPE , AMT 03, WEATHER BC.

0	11.93	33.962	5.98							0	11.93	33.962	5.98	25.81	219	219	0.0000
10	11.92	33.948	5.98							10	11.92	33.948	5.98	25.80	220	220	0.0219
20	11.92	33.944	5.98							20	11.92	33.944	5.98	25.80	220	220	0.0439
30	11.83	33.945	5.88							30	11.83	33.945	5.88	25.82	218	219	0.0659
50	11.80	33.940	5.98							50	11.80	33.940	5.98	25.82	218	219	0.1098
75	5.04	34.051	6.28							75	5.04	34.051	6.28	26.94	112	113	0.1314
99	2.79	34.045	6.38							100	2.75	34.044	6.37	27.16	091	091	0.1769
123	1.94	34.033	6.28							125	1.91	34.033	6.28	27.22	085	085	0.1971
147	1.67	34.040	6.38							150	1.64	34.040	6.36	27.25	083	083	0.2202
175	1.31	34.049	6.08							200	1.27	34.050	6.08	27.28	079	079	0.2610
242	0.99	34.061	6.08							250	0.95	34.061	6.13	27.31	077	076	0.3002
288	0.78	34.065	6.38														

KOREA : CHUN MA SAN , STATION 106-04 , 37-53.7. N, 129-03.8. E, DEC.20.1982, 02:40 KST, DEPTH 710 , COLOR , TRANS.
 WAVE W 3, SWELL W 1, WIND W 3, BARO 1020. , AIR TEMP. DRY 6.5, WET , CLOUD. TYPE , AMT 03, WEATHER BC.

0	11.76	33.924	6.18							0	11.76	33.924	6.18	25.81	219	218	0.0000
10	11.78	33.922	6.08							10	11.78	33.922	6.08	25.81	219	219	0.0219
20	11.79	33.907	5.88							20	11.79	33.907	5.88	25.80	220	221	0.0439
30	11.79	33.909	5.88							30	11.79	33.909	5.88	25.80	220	221	0.0660
50	11.72	33.913	6.08							50	11.72	33.913	6.08	25.81	219	220	0.1101
75	10.28	34.000	6.08							75	10.28	34.000	6.08	26.14	188	189	0.1613
100	4.25	34.060	6.38							100	4.25	34.060	6.38	27.03	103	104	0.1980
128	2.63	34.058	6.08							125	2.80	34.058	6.11	27.17	090	090	0.2224

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

152	2.02	34.052	6.48							150	2.07	34.052	6.44	27.22	085	085	0.2445
199	1.49	34.046	6.18							200	1.48	34.046	6.18	27.26	081	081	0.2863
246	1.11	34.051	6.38							250	1.08	34.050	6.36	27.29	078	078	0.3264
293	0.83	34.047	6.18							300	0.80	34.046	6.15	27.31	077	077	0.3654
390	0.54	34.041	5.88							400	0.52	34.041	5.86	27.32	076	075	0.4419
485	0.41	34.044	5.78														

KOREA ,CHUN MA SAN , STATION 106-05 . 37-53.7. N. 129-22.1. E. DEC.20.1982, 00:40 KST. DEPTH 1120 , COLOR , TRANS. ,
 WAVE W 3. SWELL W 1. WIND W 3, BARO 1020. , AIR TEMP. DRY 6.5, WET , CLOUD. TYPE CI, AMT O3, WEATHER BC,

0	11.75	33.914	6.38							0	11.75	33.914	6.38	25.81	219	219	0.0000
10	11.78	33.902	6.48							10	11.78	33.902	6.48	25.79	221	220	0.0220
20	11.73	33.898	5.88							20	11.73	33.898	5.88	25.80	220	220	0.0440
30	11.72	33.901	5.88							30	11.72	33.901	5.88	25.80	220	220	0.0661
50	11.51	33.920	5.98							50	11.51	33.920	5.98	25.86	214	215	0.1097
75	10.70	33.980	6.08							75	10.70	33.980	6.08	26.05	196	197	0.1614
99	6.76	34.104	6.08							100	6.65	34.101	6.07	26.77	127	129	0.2023
132	3.33	34.021	5.98							125	4.05	34.038	6.00	27.03	103	104	0.2315
156	2.41	34.040	6.48							150	2.64	34.035	6.35	27.16	090	091	0.2559
204	1.71	34.031	6.28							200	1.76	34.031	6.29	27.23	084	084	0.3000
251	1.27	34.048	6.28							250	1.27	34.047	6.28	27.28	080	080	0.3413
297	1.01	34.054	6.08							300	0.99	34.053	6.06	27.30	077	077	0.3809
392	0.63	34.045	5.68							400	0.61	34.044	5.68	27.32	076	076	0.4579
485	0.40	34.042	5.68														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA ,CHUN MA SAN , STATION 106-06 , 37-53.7. N, 129-41.3. E, DEC.19.1982, 22:20 KST, DEPTH 1620 , COLOR , TRANS.

WAVE W 3, SWELL W 1, WIND W 3, BARO 1020. , AIR TEMP. DRY 6.8. WET , CLOUD. TYPE CI, AMT O2, WEATHER B ,

0	10.60	33.835	6.18							0	10.60	33.835	6.18	25.93	205	205	0.0000
10	10.61	33.816	6.08							10	10.61	33.816	6.08	25.94	207	207	0.0206
20	10.60	33.814	5.58							20	10.60	33.814	5.58	25.94	207	207	0.0413
30	10.60	33.823	5.88							30	10.60	33.823	5.88	25.95	206	206	0.0620
50	10.53	33.805	5.68							50	10.53	33.805	5.68	25.94	206	207	0.1035
75	10.51	33.803	6.28							75	10.51	33.803	6.28	25.95	206	207	0.1534
99	8.09	34.100	6.28							100	7.93	34.099	6.27	26.59	145	146	0.1997
129	3.46	34.070	6.08							125	4.07	34.074	6.10	27.06	100	101	0.2307
154	3.36	34.034	6.28							150	3.37	34.039	6.24	27.10	096	097	0.2556
202	2.73	*****	6.18							200	2.75	34.044	6.18	27.16	091	091	0.3030
250	1.49	34.030	5.98							250	1.49	34.030	5.98	27.25	082	083	0.3468
298	1.10	34.027	5.98							300	1.09	34.027	5.98	27.27	080	080	0.3877
394	0.62	34.049	6.18							400	0.60	34.048	6.14	27.32	076	075	0.4659
489	0.44	34.036	5.59														

KOREA ,CHUN MA SAN , STATION 106-07 , 37-53.7. N, 130-00.0. E, DEC.19.1982, 20:00 KST, DEPTH 1060 , COLOR , TRANS.

WAVE W 3, SWELL W 1, WIND W 3, BARO 1020. , AIR TEMP. DRY 7.5. WET , CLOUD. TYPE CI, AMT O2, WEATHER B ,

0	14.42	34.009	6.28							0	14.42	34.009	6.28	25.35	263	263	0.0000
10	14.41	34.001	5.78							10	14.41	34.001	5.78	25.34	263	263	0.0263
20	14.39	33.999	5.59							20	14.39	33.999	5.59	25.35	263	263	0.0527
30	14.41	33.995	5.78							30	14.41	33.995	5.78	25.34	264	264	0.0791
50	13.59	34.035	5.49							50	13.59	34.035	5.49	25.54	245	246	0.1302
75	8.95	34.140	5.78							75	8.95	34.140	5.78	26.47	156	158	0.1807

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
100	4.93	34.119	6.08							100	4.93	34.119	6.08	27.00	106	107	0.2138
126	2.71	34.071	5.98							125	2.77	34.072	5.98	27.18	089	089	0.2384
151	2.49	34.041	6.08							150	2.49	34.042	6.07	27.18	089	089	0.2609
198	2.20	34.043	6.38							200	2.15	34.043	6.36	27.21	086	087	0.3051
247	1.21	34.056	6.08							250	1.18	34.055	6.07	27.29	078	079	0.3466
295	0.83	34.052	5.98							300	0.81	34.051	5.97	27.31	076	076	0.3855
393	0.49	34.046	*****							400	0.48	34.045	5.80	27.33	075	075	0.4615
490	0.37	34.043	5.68														
KOREA ,CHUN MA SAN ; STATION 106-08 ; 37-53.7. N, 130-18.9. E, DEC.19.1982, 18:00 KST, DEPTH 1800 , COLOR , TRANS. ,																	
WAVE W 3, SWELL W 1, WIND W 3, BARO 1020. , AIR TEMP. DRY 7.8, WET , CLOUD. TYPE CI, AMT O1. WEATHER B ,																	
0	15.24	34.058	5.59							0	15.24	34.058	5.59	25.21	276	276	0.0000
10	15.33	34.057	5.78							10	15.33	34.057	5.78	25.19	278	278	0.0277
20	15.30	34.046	5.88							20	15.30	34.046	5.88	25.19	278	279	0.0556
30	15.24	34.048	5.49							30	15.24	34.048	5.49	25.20	277	277	0.0834
50	14.39	34.045	5.78							50	14.39	34.045	5.78	25.38	260	261	0.1374
75	14.01	34.054	5.98							75	14.01	34.054	5.98	25.47	251	253	0.2017
100	13.71	34.058	6.08							100	13.71	34.058	6.08	25.53	245	247	0.2644
127	2.96	33.991	5.78							125	3.75	33.995	5.80	27.03	103	104	0.3084
152	2.56	33.983	5.88							150	2.59	33.983	5.87	27.13	094	094	0.3333
201	2.41	33.999	6.28							200	2.41	33.998	6.27	27.15	091	092	0.3802
250	1.50	34.032	6.18							250	1.50	34.032	6.18	27.25	082	083	0.4741
298	0.99	34.035	6.08							300	0.98	34.035	6.07	27.29	079	079	0.4647
395	0.67	*****	5.78							400	0.68	34.040	5.77	27.31	077	076	0.5428
491	0.64	34.045	5.68														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY
KOREA ;CHUN MA SAN ; STATION 106-09 ; 37-53.7. N, 130-37.7. E, DEC.19.1982, 15:30 KST, DEPTH 2250 , COLOR 4, TRANS. 16.0.																	
WAVE W 3, SWELL W 1, WIND W 3, BARO 1020. ; AIR TEMP. DRY 8.1, WET , CLOUD. TYPE CI, AMT 01, WEATHER B ,																	
0	15.58	34.106	5.39							0	15.58	34.106	5.39	25.17	280	280	0.0000
10	15.63	34.099	5.29							10	15.63	34.099	5.29	25.15	281	281	0.0280
20	15.68	34.104	5.29							20	15.68	34.104	5.29	25.15	282	282	0.0563
30	15.67	34.109	5.39							30	15.67	34.109	5.39	25.15	282	282	0.0846
50	15.54	34.067	5.59							50	15.54	34.067	5.59	25.15	282	283	0.1412
75	15.44	34.067	5.49							75	15.44	34.067	5.49	25.17	280	282	0.2119
100	15.17	34.080	5.59							100	15.17	34.080	5.59	25.24	273	276	0.2816
129	10.59	34.090	5.59							125	11.22	34.088	5.59	26.04	197	200	0.3411
153	4.73	34.073	5.59							150	5.46	34.075	5.59	26.91	115	116	0.3808
202	2.98	34.032	5.88							200	3.05	34.033	5.86	27.13	094	095	0.4339
250	2.57	34.043	6.18							250	2.57	34.043	6.18	27.18	089	090	0.4804
297	1.49	34.047	5.98							300	1.46	34.046	5.98	27.27	081	081	0.5236
394	0.63	34.035	5.98							400	0.61	34.035	5.96	27.31	077	076	0.6029
490	0.34	34.036	5.78														
KOREA ;CHUN MA SAN ; STATION 106-10 ; 37-53.7. N, 130-56.5. E, DEC.19.1982, 13:00 KST, DEPTH 1980 , COLOR 4, TRANS. 16.0.																	
WAVE W 3, SWELL W 2, WIND W 4, BARO 1021. ; AIR TEMP. DRY 6.5, WET , CLOUD. TYPE CI, AMT 04, WEATHER BC,																	
0	15.55	34.092	5.39							0	15.55	34.092	5.39	25.17	280	280	0.0000
10	15.56	34.091	5.39							10	15.56	34.091	5.39	25.16	281	281	0.0280
20	15.55	34.089	5.39							20	15.55	34.089	5.39	25.16	280	281	0.0561
30	15.55	34.089	5.49							30	15.55	34.089	5.49	25.16	280	281	0.0843
50	15.50	34.081	5.68							50	15.50	34.081	5.68	25.17	280	281	0.1406

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
98	15.44	34.110	5.49							100	15.08	34.109	5.47	25.28	269	272	0.2801
128	10.06	34.100	5.29							125	10.57	34.101	5.31	26.16	186	188	0.3377
152	4.83	34.086	5.89							150	5.26	34.087	5.84	26.94	112	113	0.3754
200	2.88	34.034	5.89							200	2.88	34.034	5.89	27.14	093	093	0.4274
248	1.44	34.028	6.18							250	1.42	34.028	6.17	27.25	082	082	0.4715
295	1.02	34.033	5.98							300	0.99	34.033	5.96	27.29	079	079	0.5121
391	0.63	34.033	5.78							400	0.61	34.040	5.79	27.31	076	076	0.5901
486	0.44	34.111	5.98														
KOREA .CHUM MA SAN . STATION 106-11 . 37-53.7. N. 131-15.1. E. DEC.19.1982, 10:20 KST, DEPTH 2070 . COLOR 4. TRANS. 15.0.																	
WAVE SW 3, SWELL SW 1, WIND SW 3, BARO 1023. , AIR TEMP. DRY 6.1, WET ; CLOUD. TYPE CI, AMT O4, WEATHER BC.																	
0	13.81	33.799	5.59							0	13.81	33.799	5.59	25.31	266	266	0.0000
10	13.82	33.800	5.59							10	13.82	33.800	5.59	25.31	266	266	0.0266
20	13.85	33.780	5.49							20	13.85	33.780	5.49	25.29	268	269	0.0534
30	13.86	33.789	5.68							30	13.86	33.789	5.68	25.30	268	268	0.0803
50	13.81	33.780	5.39							50	13.81	33.780	5.39	25.30	268	269	0.1341
75	13.77	33.811	5.59							75	13.77	33.811	5.59	25.33	264	266	0.2010
98	13.08	33.913	5.49							100	12.89	33.925	5.49	25.60	239	241	0.2646
129	10.21	34.100	5.59							125	10.58	34.075	5.57	26.15	187	189	0.3186
153	6.72	34.080	5.98							150	7.15	34.082	5.93	26.69	135	137	0.3595
201	3.26	34.057	6.38							200	3.33	34.053	6.37	27.12	095	096	0.4181
248	1.05	34.047	6.38							250	1.82	34.046	6.37	27.24	083	084	0.4634
295	1.24	34.032	6.28							300	1.20	34.032	6.26	27.27	080	081	0.5047
391	0.65	34.040	6.08							400	0.62	34.045	6.05	27.32	076	076	0.5833
486	0.42	34.101	5.78														

105線 海洋觀測 成績

Oceanographic Data. Line 105

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY

2月(February)

KOREA ,CHUN MA SAN , STATION 105-03 , 37-33.2. N, 129-10.3. E, FEB.13.1982, 05:00 KST, DEPTH 48 , COLOR , TRANS.																	
WAVE NW 3, SWELL NW 1, WIND NW 4, BARO 1022. , AIR TEMP. DRY 3.0, WET , CLOUD. TYPE NS, AMT 10, WEATHER S ,																	
0	9.35	34.390	*****							0	9.35	34.390	*****	26.60	144	144	0.0000
10	9.79	34.400	*****							10	9.79	34.400	*****	26.53	150	150	0.0147
20	8.68	34.310	*****							20	8.68	34.310	*****	26.64	140	140	0.0292
30	8.10	34.260	*****							30	8.10	34.260	*****	26.69	135	135	0.0430
45	6.90	34.150	*****														

KOREA ,CHUN MA SAN , STATION 105-04 , 37-33.2. N, 129-15.5. E, FEB.13.1982, 04:00 KST, DEPTH 250 , COLOR , TRANS.																	
WAVE , SWELL , WIND N 3, BARO 1022. , AIR TEMP. DRY 3.5, WET , CLOUD. TYPE NS, AMT 09, WEATHER C ,																	
0	10.99	34.460	*****							0	10.99	34.460	*****	26.37	166	165	0.0000
10	11.10	34.480	*****							10	11.10	34.480	*****	26.37	166	166	0.0166
20	10.51	34.480	*****							20	10.51	34.480	*****	26.47	156	156	0.0327
30	10.36	34.470	*****							30	10.36	34.470	*****	26.49	154	155	0.0483
50	9.80	34.170	*****							50	9.80	34.170	*****	26.35	167	168	0.0807
75	3.40	34.030	*****							75	3.40	34.030	*****	27.09	097	098	0.1140
98	2.49	34.020	*****							100	2.43	34.021	*****	27.17	090	090	0.1376
122	1.88	34.040	*****							125	1.85	34.036	*****	27.23	084	084	0.1595
145	1.65	34.010	*****							150	1.60	34.012	*****	27.23	084	085	0.1808
192	1.18	34.030	*****							200	1.14	34.028	*****	27.27	080	080	0.2222
238	0.96	34.020	*****														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA , CHUN MA SAN , STATION 105-05 , 37-33.2. N, 129-22.6. E, FEB.13.1982, 02:30 KST, DEPTH 380 , COLOR , TRANS.

WAVE , SWELL , WIND N 4, BARO 1021. , AIR TEMP. DRY 3.5, WET , CLOUD. TYPE ST, AMT 07, WEATHER BC,

0	11.22	34.430	*****							0	11.22	34.430	*****	26.31	172	172	0.0000
10	11.06	34.460	*****							10	11.06	34.460	*****	26.36	167	167	0.0169
20	11.01	34.450	*****							20	11.01	34.450	*****	26.36	167	167	0.0336
30	7.59	34.250	*****							30	7.59	34.250	*****	26.76	129	129	0.0485
50	5.77	34.140	*****							50	5.77	34.140	*****	26.92	114	114	0.0729
75	5.50	34.090	*****							75	5.50	34.090	*****	26.91	114	115	0.1016
99	4.83	34.060	*****							100	4.79	34.058	*****	26.97	109	110	0.1298
124	4.06	34.030	*****							125	4.02	34.030	*****	27.03	103	104	0.1566
148	3.20	34.030	*****							150	3.18	34.029	*****	27.11	095	096	0.1818
176	2.78	34.010	*****							200	2.69	34.010	*****	27.14	093	094	0.2295
244	1.79	34.010	*****							250	1.75	*****	*****	*****	***	***	*****
291	1.49	*****	*****							300	1.42	*****	*****	*****	***	***	*****
378	0.89	*****	*****														

KOREA , CHUN MA SAN , STATION 105-06 , 37-33.2. N, 129-41.3. E, FEB.12.1982, 23:40 KST, DEPTH 810 , COLOR , TRANS.

WAVE N 4, SWELL N 2, WIND N 4, BARO 1020. , AIR TEMP. DRY 4.0, WET , CLOUD. TYPE CI, AMT 03, WEATHER BC,

0	11.27	34.440	*****							0	11.27	34.440	*****	26.31	172	172	0.0000
10	11.40	34.450	*****							10	11.40	34.450	*****	26.29	173	173	0.0173
20	11.25	34.440	*****							20	11.25	34.440	*****	26.31	172	172	0.0346
30	10.25	34.400	*****							30	10.25	34.400	*****	26.46	158	158	0.0311
50	8.35	34.210	*****							50	8.35	34.210	*****	26.62	142	143	0.0813
75	7.28	34.200	*****							75	7.28	34.200	*****	26.77	128	129	0.1154
99	5.50	34.110	*****							100	5.42	34.105	*****	26.93	112	113	0.1458

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

24	3.60	34.000	*****							125	3.57	34.000	*****	27.05	101	102	0.1728
48	2.95	34.000	*****							150	2.90	34.000	*****	27.11	095	096	0.1977
97	1.90	34.010	*****							200	1.87	34.010	*****	27.21	084	087	0.2436
46	1.43	34.010	*****							250	1.38	34.010	*****	27.24	083	083	0.2864
95	0.88	34.020	*****							300	0.86	34.020	*****	27.28	079	079	0.3272
93	0.57	34.030	*****							400	0.56	34.030	*****	27.31	077	076	0.4054
90	0.52	34.040	*****														

KOREA , CHUN MA SAN , STATION 105-07 , 37-33.2. N, 130-00.0. E, FEB.12.1982, 20:50 KST, DEPTH 1480 , COLOR , TRANS.

WAVE N 4, SWELL N 2, WIND N 4, BARO 1020. , AIR TEMP. DRY 5.0, WET , CLOUD. TYPE CI, AMT 01, WEATHER B ,

0	11.32	34.430	*****							0	11.32	34.430	*****	26.29	174	173	0.0000
10	11.35	34.430	*****							10	11.35	34.430	*****	26.28	174	174	0.0174
20	11.30	34.430	*****							20	11.30	34.430	*****	26.29	173	173	0.0348
30	10.85	34.410	*****							30	10.85	34.410	*****	26.36	167	167	0.0519
50	10.84	34.400	*****							50	10.84	34.400	*****	26.35	168	168	0.0855
75	8.47	34.330	*****							75	8.47	34.330	*****	26.69	135	136	0.1237
99	7.03	34.230	*****							100	6.94	34.223	*****	26.83	122	123	0.1563
124	4.80	34.070	*****							125	4.75	34.068	*****	26.98	108	109	0.1854
148	3.79	34.030	*****							150	3.72	34.029	*****	27.06	100	101	0.2118
198	2.17	34.010	*****							200	2.14	34.011	*****	27.19	088	089	0.2596
246	1.56	34.040	*****							250	1.53	34.038	*****	27.25	082	082	0.3026
294	1.30	34.020	*****							300	1.26	34.020	*****	27.26	082	082	0.3439
392	0.73	34.020	*****							400	0.71	34.020	*****	27.29	078	078	0.4244
489	0.49	34.030	*****														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY
KOREA ,CHUN MA SAN , STATION 105-08 , 37-33.2. N, 130-18.7. E, FEB.12.1982, 18:10 KST, DEPTH 1503 , COLOR 3, TRANS. 21.0, WAVE NW 4, SWELL NW 2, WIND NW 4, BARO 1019. , AIR TEMP. DRY 5.5, WET , CLOUD. TYPE CI, AMT 01, WEATHER B ,																	
0	11.76	34.470	*****							0	11.76	34.470	*****	26.24	178	178	0.0000
10	11.68	34.480	*****							10	11.68	34.480	*****	26.26	176	176	0.0177
20	11.63	34.480	*****							20	11.63	34.480	*****	26.27	175	175	0.0353
30	11.56	34.490	*****							30	11.56	34.490	*****	26.29	173	174	0.0529
50	10.40	34.380	*****							50	10.40	34.380	*****	26.41	162	162	0.0866
75	9.37	34.360	*****							75	9.37	34.360	*****	26.57	147	148	0.1255
99	9.31	34.360	*****							100	9.23	34.352	*****	26.59	145	147	0.1624
124	7.45	34.180	*****							125	7.27	34.172	*****	26.75	130	132	0.1973
148	3.29	34.010	*****							150	3.25	34.010	*****	27.09	097	098	0.2262
196	2.50	34.030	*****							200	2.43	34.033	*****	27.18	089	090	0.2734
245	1.69	34.070	*****							250	1.67	34.067	*****	27.27	081	081	0.3163
294	1.52	34.050	*****							300	1.50	34.050	*****	27.27	081	081	0.3572
393	1.21	34.050	*****							400	1.16	34.050	*****	27.29	079	079	0.4379
492	0.64	34.050	*****														
KOREA ,CHUN MA SAN , STATION 105-09 , 37-33.2. N, 130-37.5. E, FEB.12.1982, 15:20 KST, DEPTH 1140 , COLOR 3, TRANS. 21.0, WAVE NW 3, SWELL NW 1, WIND NW 3, BARO 1019. , AIR TEMP. DRY 5.8, WET , CLOUD. TYPE CI, AMT 01, WEATHER B ,																	
0	11.47	34.410	*****							0	11.47	34.410	*****	26.24	178	177	0.0000
10	11.48	34.420	*****							10	11.48	34.420	*****	26.25	177	177	0.0177
20	11.48	34.400	*****							20	11.48	34.400	*****	26.24	179	179	0.0356
30	11.37	34.400	*****							30	11.37	34.400	*****	26.26	177	177	0.0534
50	11.33	34.400	*****							50	11.33	34.400	*****	26.26	176	177	0.0889
75	11.30	34.410	*****							75	11.30	34.410	*****	26.28	175	176	0.1331

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

99	11.25	34.380	*****							100	11.08	34.370	*****	26.29	174	176	0.1772
124	7.11	34.150	*****							125	7.08	34.149	*****	26.75	129	131	0.2157
147	6.50	34.140	*****							150	6.30	34.139	*****	26.85	120	122	0.2474
196	3.33	34.130	*****							200	3.22	34.119	*****	27.18	089	090	0.3007
246	1.99	34.000	*****							250	1.94	34.001	*****	27.19	088	088	0.3453
295	1.39	34.020	*****							300	1.36	34.019	*****	27.25	082	083	0.3884
394	0.85	34.010	*****							400	0.83	34.012	*****	27.28	080	079	0.4700
489	0.54	34.050	*****														

KOREA CHUM MO SAN , STATION 105-10 , 37-33.2. N. 130-55.9. E. FEB.12.1992, 12:20 PST, DEPTH 1800 , COLOR 3, TRANS. 19.0,
 WAVE NW 3, SWELL NW 1, WIND NW 3, BARO 1019. , AIR TEMP. DRY 4.6, WET , CLOUD. TYPE ST, AMT 01, WEATHER B ,

0	11.15	34.420	*****							0	11.15	34.420	*****	26.31	171	171	0.0000
10	11.15	34.430	*****							10	11.15	34.430	*****	26.32	171	171	0.0171
20	11.22	34.440	*****							20	11.22	34.440	*****	26.31	171	171	0.0342
30	11.12	34.430	*****							30	11.12	34.430	*****	26.32	170	170	0.0514
50	10.95	34.400	*****							50	10.95	34.400	*****	26.33	169	170	0.0855
75	9.61	34.330	*****							75	9.61	34.330	*****	26.51	153	154	0.1261
98	8.63	34.280	*****							100	8.39	34.266	*****	26.65	139	140	0.1630
122	5.78	34.120	*****							125	5.67	34.114	*****	26.91	115	116	0.1951
147	4.88	34.070	*****							150	4.87	34.067	*****	26.97	109	110	0.2235
186	4.75	34.040	*****							200	4.13	34.032	*****	27.02	104	105	0.2777
245	2.14	34.010	*****							250	2.08	34.010	*****	27.19	088	089	0.3265
292	1.61	34.010	*****							300	1.54	34.011	*****	27.23	084	085	0.3701
392	0.80	34.030	*****							400	0.77	34.030	*****	27.30	078	078	0.4517
490	0.46	34.030	*****														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA ,CHUN MA SAN , STATION 105-11 , 37-33.2. N, 131-14.6. E, FEB.12.1982, 09:30 KST, DEPTH 2375 , COLOR , TRANS.																	
WAVE 2, SWELL 1, WIND NW 3, BARO 1018.5, AIR TEMP. DRY 5.0, WET , CLOUD. TYPE ST, AMT 01, WEATHER B ,																	
0	11.08	34.420	*****							0	11.08	34.420	*****	26.32	170	170	0.0000
10	11.08	34.410	*****							10	11.08	34.410	*****	26.32	171	171	0.0170
20	10.89	34.430	*****							20	10.89	34.430	*****	26.37	166	166	0.0339
30	10.88	34.420	*****							30	10.88	34.420	*****	26.36	167	167	0.0507
50	10.85	34.430	*****							50	10.85	34.430	*****	26.37	165	166	0.0841
75	10.79	34.410	*****							75	10.79	34.410	*****	26.37	166	167	0.1259
98	9.55	34.330	*****							100	9.52	34.324	*****	26.52	152	153	0.1661
123	9.25	34.260	*****							125	9.20	34.243	*****	26.51	153	155	0.2047
146	8.73	34.070	*****							150	8.39	34.067	*****	26.50	154	156	0.2437
196	4.55	34.040	*****							200	4.33	34.037	*****	27.00	106	107	0.3097
243	2.03	34.010	*****							250	1.95	34.015	*****	27.20	087	087	0.3586
292	1.47	34.050	*****							300	1.41	34.048	*****	27.27	080	081	0.4009
392	0.80	34.030	*****							400	0.77	34.030	*****	27.30	078	078	0.4807
490	0.49	34.030	*****														

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KOREA ,CHUN MA SAN , STATION 105-03 , 37-33.2. N, 129-10.3. E, APR.12.1982, 05:00 KST, DEPTH 48 , COLOR , TRANS. ,																	
WAVE NE 1, SWELL NE 1, WIND NE 2, BARO 1014.5, AIR TEMP. DRY 11.5, WET , CLOUD. TYPE , AMT , WEATHER ,																	
0	11.05	34.401	*****							0	11.05	34.401	*****	26.31	171	171	0.0000
10	10.90	34.424	*****							10	10.90	34.424	*****	26.36	167	167	0.0169
20	10.47	34.407	*****							20	10.47	34.407	*****	26.42	161	161	0.0333
30	8.77	34.340	*****							30	8.77	34.340	*****	26.65	139	139	0.0484
45	2.33	34.067	*****														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA ,CHUN MA SAN , STATION 105-04 , 37-33.2. N, 129-15.5. E, APR.12.1982, 06:00 KST, DEPTH 250 , COLOR , TRANS.

WAVE SW 1, SWELL SW 1, WIND SW 2, BARO 1013.5, AIR TEMP. DRY 11.6, WET , CLOUD. TYPE AC, AMT 09, WEATHER C ,

0	11.35	34.408	*****							0	11.35	34.408	*****	26.27	176	175	0.0000
10	11.03	34.420	*****							10	11.03	34.420	*****	26.33	169	169	0.0172
20	10.79	34.428	*****							20	10.79	34.428	*****	26.38	165	165	0.0340
30	3.63	34.410	*****							30	3.63	34.410	*****	27.37	071	071	0.0458
50	3.41	34.109	*****							50	3.41	34.109	*****	27.15	091	092	0.0621
74	2.49	34.062	*****							75	2.46	34.061	*****	27.20	087	087	0.0846
98	1.80	34.047	*****							100	1.79	34.046	*****	27.24	083	083	0.1060
122	1.68	34.045	*****							125	1.66	34.045	*****	27.25	082	082	0.1268
146	1.54	34.052	*****							150	1.50	34.052	*****	27.27	081	081	0.1473
195	1.10	34.052	*****							200	1.06	34.052	*****	27.30	078	078	0.1872
241	0.82	34.060	*****														

KOREA ,CHUN MA SAN , STATION 105-05 , 37-33.2. N, 129-22.6. E, APR.12.1982, 07:20 KST, DEPTH 380 , COLOR 4, TRANS. 9.0,

WAVE NE 2, SWELL NE 1, WIND NE 3, BARO 1014. , AIR TEMP. DRY 11.6, WET , CLOUD. TYPE CI, AMT 03, WEATHER BC,

0	11.13	34.407	*****							0	11.13	34.407	*****	26.30	172	172	0.0000
10	11.11	34.419	*****							10	11.11	34.419	*****	26.32	171	171	0.0171
20	10.79	34.423	*****							20	10.79	34.423	*****	26.38	165	165	0.0340
30	10.54	34.415	*****							30	10.54	34.415	*****	26.42	161	162	0.0503
50	7.81	34.070	*****							50	7.81	34.070	*****	26.59	145	146	0.0812
74	2.39	34.038	*****							75	2.36	34.038	*****	27.19	088	088	0.1105
98	1.86	34.045	*****							100	1.84	34.048	*****	27.24	083	083	0.1321
122	1.69	34.081	*****							125	1.65	34.077	*****	27.28	080	080	0.1526
146	1.39	34.054	*****							150	1.36	34.053	*****	27.28	080	080	0.1727

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

195 1.13 34.051 *****
 242 0.94 34.054 *****
 289 0.58 34.054 *****

KOREA ,CHUN MA SAN , STATION 105-06 , 37-33.2. N, 129-41.3. E, APR.12.1982, 10:10 KST, DEPTH 810 , COLOR 4, TRANS. 16.0,
 WAVE SW 3, SWELL SW 2, WIND SW 3, BARO 1014. , AIR TEMP. DRY 15.1, WET , CLOUD. TYPE C1, AMT 02, WEATHER B ,

0 12.86 34.484 ***** 0 12.86 34.484 ***** 26.04 198 197 0.0000
 10 12.85 34.493 ***** 10 12.85 34.493 ***** 26.04 197 197 0.0197
 20 12.80 34.497 ***** 20 12.80 34.497 ***** 26.06 195 196 0.0394
 30 12.44 34.480 ***** 30 12.44 34.480 ***** 26.11 190 190 0.0587
 50 11.49 34.431 ***** 50 11.49 34.431 ***** 26.26 176 177 0.0956
 75 6.11 34.241 ***** 75 6.11 34.241 ***** 26.96 110 111 0.1318
 99 2.79 34.230 ***** 100 2.73 34.218 ***** 27.30 077 078 0.1554
 115 1.95 34.047 ***** 125 1.78 34.049 ***** 27.24 083 083 0.1757
 138 1.57 34.052 ***** 150 1.49 34.053 ***** 27.27 081 081 0.1962
 182 1.28 34.059 ***** 200 1.18 34.059 ***** 27.29 078 078 0.2362
 227 1.03 34.059 ***** 250 0.87 34.056 ***** 27.31 076 076 0.2750
 272 0.72 34.055 ***** 300 0.68 34.053 ***** 27.32 076 075 0.3132
 361 0.60 34.049 ***** 400 0.49 34.051 ***** 27.33 075 074 0.3885
 455 0.35 34.056 *****

KOREA ,CHUN MA SAN , STATION 105-07 , 37-33.2. N, 130-00.0. E, APR.16.1982, 17:10 KST, DEPTH 1480 , COLOR 3, TRANS. 10.0,
 WAVE SE 2, SWELL SE 1, WIND SE 2, BARO 1005. , AIR TEMP. DRY 10.3, WET , CLOUD. TYPE NS, AMT 10, WEATHER C ,

0 12.97 34.485 ***** 0 12.97 34.485 ***** 26.01 200 199 0.0000
 10 12.70 34.503 ***** 10 12.70 34.503 ***** 26.08 193 193 0.0196
 20 12.45 34.505 ***** 20 12.45 34.505 ***** 26.13 188 189 0.0388

OBSERVED										INTERPOLATED					CALCULATED		
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
30	12.75	34.494	*****							30	12.75	34.494	*****	26.14	187	188	0.0576
50	12.08	34.537	*****							50	12.08	34.537	*****	26.23	179	180	0.0945
75	10.24	34.422	*****							75	10.24	34.422	*****	26.47	156	157	0.1368
99	7.91	34.306	*****							100	7.72	34.295	*****	26.78	127	128	0.1726
120	3.94	34.088	*****							125	3.74	34.078	*****	27.10	097	098	0.2010
144	3.00	34.042	*****							150	2.97	34.043	*****	27.14	093	093	0.2250
192	2.76	34.054	*****							200	2.57	34.058	*****	27.19	088	089	0.2707
235	1.78	34.080	*****							250	1.47	34.077	*****	27.29	079	079	0.3129
283	0.81	34.073	*****							300	0.78	34.072	*****	27.33	075	075	0.3515
378	0.68	34.070	*****							400	0.65	34.070	*****	27.34	074	074	0.4263
469	0.59	34.072	*****														

FOREA ,CHUN MA SAN , STATION 105-08 , 37-33.2. N, 130-18.7. E, APR.16.1982, 20:00 KST, DEPTH 1503 , COLOR , TRANS.

WAVE NE 2, SWELL NE 1, WIND NE 2, BARD 1005. , AIR TEMP. DRY 9.4, WET , CLOUD. TYPE NS, AMT 07, WEATHER BC,

0	12.39	34.540	*****							0	12.39	34.540	*****	26.17	185	184	0.0000
10	12.38	34.540	*****							10	12.38	34.540	*****	26.17	184	184	0.0184
20	12.21	34.540	*****							20	12.21	34.540	*****	26.21	181	182	0.0368
30	12.11	*****	*****							30	12.11	34.541	*****	26.23	179	180	0.0549
50	11.90	34.543	*****							50	11.90	34.543	*****	26.27	176	176	0.0906
75	11.22	34.493	*****							75	11.22	34.493	*****	26.36	167	169	0.1339
99	10.07	34.438	*****							100	9.96	34.431	*****	26.53	151	152	0.1741
123	7.52	34.280	*****							125	7.30	34.268	*****	26.82	123	125	0.2090
147	4.97	34.147	*****							150	4.78	34.141	*****	27.04	103	104	0.2377
195	1.94	34.058	*****							200	1.88	34.057	*****	27.24	083	083	0.2847
242	1.45	34.052	*****							250	1.36	34.054	*****	27.28	080	080	0.3258

OBSERVED														INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY				

291	0.92	34.066	*****							300	0.87	34.065	*****	27.32	076	076	0.3650
388	0.41	34.064	*****							400	0.40	34.063	*****	27.35	073	073	0.4397
484	0.34	34.058	*****														

KOREA , CHUN MA SAN , STATION 105-09 , 37-33.2. N, 130-37.5. E, APR.16.1982, 22:50 KST, DEPTH 1140 , COLOR , TRANS.

WAVE NW 3, SWELL NW 2, WIND NW 3, BARO 1001. , AIR TEMP. DRY 9.8, WET , CLOUD. TYPE NS, AMT 10, WEATHER R ,

0	12.05	34.518	*****							0	12.05	34.518	*****	26.22	180	180	0.0000
10	11.97	34.536	*****							10	11.97	34.536	*****	26.25	177	177	0.0178
20	11.95	34.530	*****							20	11.95	34.530	*****	26.25	177	178	0.0356
30	11.89	34.528	*****							30	11.89	34.528	*****	26.26	176	177	0.0534
50	11.39	34.465	*****							50	11.39	34.465	*****	26.30	172	173	0.0885
75	11.32	34.503	*****							75	11.32	34.503	*****	26.34	168	170	0.1315
99	10.87	*****	*****							100	10.85	34.458	*****	26.39	163	165	0.1735
122	10.10	34.420	*****							125	9.88	34.406	*****	26.52	151	154	0.2134
146	8.37	34.309	*****							150	8.00	34.291	*****	26.73	131	134	0.2495
195	3.91	34.095	*****							200	3.67	34.089	*****	27.11	095	097	0.3073
243	1.62	34.043	*****							250	1.55	34.044	*****	27.26	082	082	0.3522
290	1.15	34.052	*****							300	1.11	34.053	*****	27.29	078	078	0.3925
388	0.83	34.071	*****							400	0.77	34.066	*****	27.33	075	075	0.4696
474	0.45	34.041	*****														

KOREA , CHUN MA SAN , STATION 105-10 , 37-33.2. N, 130-55.9. E, APR.17.1982, 02:00 KST, DEPTH 1800 , COLOR , TRANS.

WAVE SW 1, SWELL SW 1, WIND SW 1, BARO 1017. , AIR TEMP. DRY 10.2, WET , CLOUD. TYPE NS, AMT 10, WEATHER R ,

0	12.21	34.521	*****							0	12.21	34.521	*****	26.19	183	182	0.0000
10	12.17	34.517	*****							10	12.13	34.513	*****	26.20	182	182	0.0182
30	12.04	34.517	*****							30	12.04	34.513	*****	26.22	180	180	0.0744

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D DY
30	11.99	34.470	*****							30	11.99	34.470	*****	26.19	183	183	0.0544
50	11.76	34.430	*****							50	11.76	34.430	*****	26.21	181	182	0.0912
75	11.71	34.440	*****							75	11.71	34.440	*****	26.22	180	181	0.1368
99	11.08	34.440	*****							100	11.05	34.439	*****	26.34	168	170	0.1808
120	10.50	34.438	*****							125	10.30	34.424	*****	26.47	157	159	0.2221
142	9.63	34.378	*****							150	9.15	34.349	*****	26.60	144	147	0.2604
193	6.63	34.195	*****							200	6.29	34.172	*****	26.88	118	120	0.3274
240	4.40	34.043	*****							250	3.83	34.043	*****	27.06	100	102	0.3832
288	1.71	34.043	*****							300	1.58	34.043	*****	27.25	082	082	0.4296
385	0.72	34.046	*****							400	0.67	34.046	*****	27.32	076	076	0.5092
481	0.41	34.048	*****														

KOREA ,CHUN MA SAN ; STATION 105-11 , 37-33.2. N, 131-14.6. E, APR.18.1982, 18:40 KST, DEPTH 2375 , COLOR , TRANS.

WAVE SE 1, SWELL SE 1, WIND SE 2, BARO 1012. , AIR TEMP. DRY 11.8, WET , CLOUD. TYPE , AMT , WEATHER ,

0	12.22	34.511	*****							0	12.22	34.511	*****	26.18	184	183	0.0000
10	11.89	34.525	*****							10	11.89	34.525	*****	26.26	177	177	0.0180
20	11.75	34.517	*****							20	11.75	34.517	*****	26.28	175	175	0.0356
30	11.66	34.508	*****							30	11.66	34.508	*****	26.29	174	174	0.0531
50	11.63	34.504	*****							50	11.63	34.504	*****	26.29	174	174	0.0881
75	11.58	34.496	*****							75	11.58	34.496	*****	26.29	173	175	0.1319
99	11.04	34.471	*****							100	11.02	34.470	*****	26.37	165	167	0.1747
120	10.65	34.456	*****							125	10.45	34.446	*****	26.46	158	160	0.2158
140	9.86	34.416	*****							150	9.27	34.381	*****	26.60	144	146	0.2542
188	7.06	34.250	*****							200	6.22	34.204	*****	26.91	114	117	0.3201
235	3.78	34.072	*****							250	3.20	34.065	*****	27.14	093	094	0.3732

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY

283	1.93	34.050	*****							300	1.74	34.046	*****	27.24	083	083	0.4178
381	0.88	34.030	*****							400	0.79	34.035	*****	27.30	078	078	0.4988
477	0.45	34.058	*****														

6月(June)

KOREA ,CHUN MA SAN , STATION 105-03 , 37-33.2. N, 129-10.3. E, JUN. 7.1982, 17:25 KST, DEPTH 48 , COLOR 3, TRANS. 15.0, WAVE NNE 3, SWELL NNE 1, WIND NNE 3, BARO 1003. , AIR TEMP. DRY 19.0, WET , CLOUD. TYPE CI, AMT 03, WEATHER BC,																	
0	17.39	34.353	*****							0	17.39	34.353	*****	24.94	302	301	0.0000
10	14.55	34.351	*****							10	14.55	34.351	*****	25.58	241	240	0.0271
20	7.66	34.274	*****							20	7.66	34.274	*****	26.77	128	128	0.0456
30	4.76	34.193	*****							30	4.76	34.193	*****	27.08	098	098	0.0569
45	2.97	34.128	*****														

KOREA ,CHUN MA SAN , STATION 105-04 , 37-33.2. N, 129-15.5. E, JUN. 7.1982, 18:20 KST, DEPTH 250 , COLOR , TRANS. , WAVE NNE 3, SWELL NNE 1, WIND NNE 3, BARO 1003. , AIR TEMP. DRY 17.8, WET , CLOUD. TYPE CI, AMT 03, WEATHER BC,																	
0	16.71	34.369	*****							0	16.71	34.369	*****	25.11	285	285	0.0000
10	15.44	34.364	*****							10	15.44	34.364	*****	25.40	258	258	0.0272
20	13.99	34.374	*****							20	13.99	34.374	*****	25.72	228	228	0.0515
30	7.57	34.264	*****							30	7.57	34.264	*****	26.77	127	128	0.0693
50	3.83	34.152	*****							50	3.83	34.152	*****	27.15	092	092	0.0914
75	2.35	34.093	*****							75	2.35	34.093	*****	27.23	084	084	0.1135
100	1.96	34.116	*****							100	1.96	34.116	*****	27.28	079	079	0.1340
125	1.77	34.120	*****							125	1.77	34.120	*****	27.30	077	078	0.1537
150	1.61	34.120	*****							150	1.61	34.120	*****	27.31	076	076	0.1731
200	0.86	34.095	*****							200	0.86	34.095	*****	27.34	073	073	0.2108

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA.T	D-T	SVA	D-DY

KOREA .CHUM MA SAN , STATION 105-05 , 37-33.2. N, 129-22.6. E, JUN. 7.1982, 20:00 LST, DEPTH 380 , COLOR , TRANS.

WAVE NNE 4, SWELL NW 1, WIND NW 4, BARO 1004. , AIR TEMP. DRY 17.5, WET , CLOUD. TYPE ST, AMT 01, WEATHER B ,

0	17.62	34.301	*****							0	17.62	34.301	*****	24.84	311	311	0.0000
10	17.10	34.368	*****							10	17.10	34.368	*****	25.02	294	294	0.0302
20	14.52	34.342	*****							20	14.52	34.342	*****	25.58	241	241	0.0570
30	10.96	34.286	*****							30	10.96	34.286	*****	26.24	178	178	0.0780
50	5.08	34.191	*****							50	5.08	34.191	*****	27.04	102	102	0.1062
74	3.40	34.143	*****							75	3.37	34.141	*****	27.18	089	089	0.1302
110	2.48	34.102	*****							100	2.73	34.113	*****	27.22	085	086	0.1522
132	2.13	34.100	*****							125	2.24	34.100	*****	27.25	082	083	0.1733
157	2.05	34.120	*****							150	2.07	34.114	*****	27.27	080	080	0.1938
203	1.64	34.118	*****							200	1.66	34.118	*****	27.31	077	077	0.2334
250	1.20	34.125	*****							250	1.20	34.125	*****	27.35	073	073	0.2713
296	0.87	34.129	*****							300	0.85	34.128	*****	27.37	071	071	0.3076
350	0.67	34.127	*****														

KOREA .CHUM MA SAN , STATION 105-06 , 37-33.2. N, 129-41.3. E, JUN. 7.1982, 22:50 KST, DEPTH 810 , COLOR , TRANS.

WAVE NNE 4, SWELL NNE 2, WIND NNE 4, BARO 1005. , AIR TEMP. DRY 17.5, WET , CLOUD. TYPE NS, AMT 09, WEATHER C ,

0	18.98	34.310	*****							0	18.98	34.310	*****	24.51	342	342	0.0000
10	18.90	34.316	*****							10	18.90	34.316	*****	24.54	340	340	0.0341
20	18.00	34.294	*****							20	18.00	34.294	*****	24.75	320	320	0.0672
30	17.35	34.327	*****							30	17.35	34.327	*****	24.93	303	303	0.0984
50	14.26	34.380	*****							50	14.26	34.380	*****	25.67	233	234	0.1522
75	13.62	34.360	*****							75	13.62	34.360	*****	25.79	221	223	0.2094
99	8.26	34.306	*****							100	8.06	34.299	*****	26.73	132	133	0.2540

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
130	2.32	34.099	*****							125	3.27	34.132	*****	27.18	089	089	0.2819
156	1.98	34.105	*****							150	2.05	34.103	*****	27.27	081	081	0.3033
198	1.54	34.111	*****							200	1.52	34.111	*****	27.31	076	077	0.3430
242	1.15	34.117	*****							250	1.10	34.116	*****	27.34	073	073	0.3807
287	0.92	34.113	*****							300	0.89	34.110	*****	27.35	072	072	0.4174
382	0.73	34.095	*****							400	0.70	34.103	*****	27.36	072	072	0.4900
470	0.62	34.138	*****														
KOREA ,CHUN MA SAN , STATION 105-07 , 37-33.2. N, 130-00.0. E, JUN. 8.1982, 03:30 KST, DEPTH 1480 , COLOR , TRANS. ,																	
WAVE NNW 4, SWELL NNW 2, WIND NNW 4, BARO 1005. , AIR TEMP. DEY 17.0, WET , CLOUD. TYPE CI, AMT 03, WEATHER BC,																	
0	18.13	34.539	*****							0	18.13	34.539	*****	24.90	305	305	0.0000
10	18.05	34.555	*****							10	18.05	34.555	*****	24.93	302	302	0.0304
20	16.57	34.525	*****							20	16.57	34.525	*****	25.26	271	271	0.0591
30	15.09	34.525	*****							30	15.09	34.525	*****	25.60	239	239	0.0847
50	13.66	34.510	*****							50	13.66	34.510	*****	25.89	211	212	0.1299
75	13.26	34.500	*****							75	13.26	34.500	*****	25.97	204	206	0.1823
98	12.95	34.548	*****							100	12.78	34.542	*****	26.09	192	194	0.2324
136	9.88	34.446	*****							125	10.76	34.475	*****	26.42	161	163	0.2771
157	7.57	34.380	*****							150	8.34	34.402	*****	26.77	128	130	0.3140
204	3.58	34.134	*****							200	3.91	34.154	*****	27.14	093	094	0.3703
251	1.70	34.350	*****							250	1.74	34.345	*****	27.48	060	061	0.4093
295	1.20	34.270	*****							300	1.17	34.266	*****	27.46	062	063	0.4404
386	0.73	34.215	*****							400	0.70	34.202	*****	27.44	064	064	0.5043
471	0.56	34.138	*****														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA ,CHUN MA SAN , STATION 105-08 , 37-33.2. N, 130-18.7. E, JUN. 8.1982, 05:35 KST, DEPTH 1503 , COLOR , TRANS. , WAVE NNE 3, SWELL NNE 2, WIND NNE 3, BARO 1005. , AIR TEMP. DRY 17.5, WET , CLOUD. TYPE CI, AMT 02, WEATHER B ,																	
0	17.43	34.535	*****							0	17.43	34.535	*****	25.07	289	289	0.0000
10	17.40	34.528	*****							10	17.40	34.528	*****	25.07	289	289	0.0289
20	16.62	34.538	*****							20	16.62	34.538	*****	25.26	271	271	0.0570
30	15.73	34.534	*****							30	15.73	34.534	*****	25.46	252	252	0.0832
50	14.27	34.569	*****							50	14.27	34.569	*****	25.81	219	220	0.1306
75	12.34	34.565	*****							75	12.34	34.565	*****	26.20	182	183	0.1811
99	11.60	34.546	*****							100	11.57	34.544	*****	26.33	170	172	0.2256
128	10.80	34.509	*****							125	10.88	34.512	*****	26.43	160	162	0.2675
162	9.07	34.412	*****							150	9.68	34.446	*****	26.59	145	148	0.3064
210	5.02	34.215	*****							200	5.86	34.256	*****	27.00	106	108	0.3707
257	2.49	34.104	*****							250	2.86	34.120	*****	27.21	086	087	0.4198
305	1.25	34.104	*****							300	1.37	34.104	*****	27.32	076	076	0.4609
394	0.93	34.107	*****							400	0.89	34.107	*****	27.35	073	073	0.5360
481	0.48	34.113	*****														

KOREA ,CHUN MA SAN , STATION 105-09 , 37-33.2. N, 130-37.5. E, JUN. 8.1982, 07:20 KST, DEPTH 1140 , COLOR 3, TRANS. 23.5, WAVE NNW 3, SWELL NNW 2, WIND NNW 3, BARO 1006. , AIR TEMP. DRY 18.8, WET , CLOUD. TYPE CI, AMT 02, WEATHER B ,																	
0	17.83	34.510	*****							0	17.83	34.510	*****	24.95	300	300	0.0000
10	17.80	34.535	*****							10	17.80	34.535	*****	24.98	298	298	0.0299
20	16.79	34.550	*****							20	16.79	34.550	*****	25.23	274	274	0.0586
30	16.22	34.560	*****							30	16.22	34.560	*****	25.37	261	261	0.0854
50	14.48	34.563	*****							50	14.48	34.563	*****	25.76	224	225	0.1341
74	12.47	34.536	*****							75	12.43	34.536	*****	26.16	186	187	0.1857

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

97	11.76	34.539	*****							100	11.65	34.535	*****	26.31	172	174	0.2309
124	10.79	34.509	*****							125	10.70	34.505	*****	26.46	157	160	0.2728
145	8.90	34.426	*****							150	8.46	34.402	*****	26.75	130	132	0.3094
191	4.90	34.214	*****							200	4.44	34.200	*****	27.12	095	096	0.3667
247	2.04	34.132	*****							250	1.99	34.130	*****	27.29	078	079	0.4107
298	1.33	34.105	*****							300	1.32	34.104	*****	27.32	076	076	0.4497
390	0.90	34.060	*****							400	0.86	34.063	*****	27.32	076	076	0.5261
486	0.52	34.090	*****														

KOREA CHUN MA SAN , STATION 105-10 , 37-33.2. N. 130-55.9. E. JUN. 8.1982, 10:20 PST, DEPTH 1800 , COLOR 3, TRANS. 25.0.

WAVE HE 3, SWELL NE 1, WIND NE 3, BARO 1006. , AIR TEMP. DRY 19.8, WET , CLOUD. TYPE ST, AMT 04, WEATHER BC.

0	18.35	34.532	*****							0	18.35	34.532	*****	24.84	311	311	0.0000
10	17.89	34.543	*****							10	17.89	34.543	*****	24.96	299	299	0.0305
20	16.76	34.544	*****							20	16.76	34.544	*****	25.24	274	274	0.0592
30	15.79	34.597	*****							30	15.79	34.597	*****	25.50	249	249	0.0854
50	14.64	34.589	*****							50	14.64	34.589	*****	25.75	225	226	0.1330
75	13.42	34.539	*****							75	13.42	34.539	*****	25.96	204	206	0.1872
98	12.43	34.589	*****							100	12.29	34.581	*****	26.22	180	182	0.2358
130	10.20	34.471	*****							125	10.54	34.489	*****	26.47	156	158	0.2784
156	7.48	34.372	*****							150	8.10	34.394	*****	26.80	125	127	0.3143
204	4.98	34.177	*****							200	5.18	34.193	*****	27.03	103	105	0.3727
252	1.91	34.106	*****							250	2.03	34.108	*****	27.27	080	081	0.4194
301	1.04	34.139	*****							300	1.07	34.138	*****	27.36	071	072	0.4578
399	0.71	34.189	*****							400	0.70	34.188	*****	27.43	065	065	0.5267
496	0.56	34.114	*****														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA , CHUN MA SAN , STATION 105-11 , 37-33.2. N, 131-14.6. E, JUN. 8.1982, 13:15 KST, DEPTH 2375 , COLOR 3, TRANS. 20.0,
 WAVE NE 2, SWELL NE 1, WIND NE 2, BARO 1006. , AIR TEMP. DRY 22.0, WET , CLOUD. TYPE CC, AMT 06, WEATHER BC,
 0 19.13 34.475 ***** 0 19.13 34.475 ***** 24.60 334 334 0.0000
 10 17.72 34.464 ***** 10 17.72 34.464 ***** 24.94 301 301 0.0317
 20 17.44 34.464 ***** 20 17.44 34.464 ***** 25.01 295 295 0.0616
 30 16.50 34.532 ***** 30 16.50 34.532 ***** 25.29 269 269 0.0899
 50 16.07 34.544 ***** 50 16.07 34.544 ***** 25.39 258 260 0.1429
 75 13.89 34.492 ***** 75 13.89 34.492 ***** 25.83 217 219 0.2028
 98 10.20 34.499 ***** 100 9.89 34.477 ***** 26.58 146 148 0.2487
 128 5.66 34.183 ***** 125 6.11 34.214 ***** 26.93 112 114 0.2815
 156 4.73 34.188 ***** 150 4.92 34.186 ***** 27.06 101 102 0.3086
 203 2.74 34.136 ***** 200 2.86 34.139 ***** 27.23 084 085 0.3557
 251 1.68 34.099 ***** 250 1.70 34.099 ***** 27.29 078 079 0.3970
 298 1.33 34.141 ***** 300 1.31 34.141 ***** 27.35 073 073 0.4353
 391 0.69 34.173 ***** 400 0.69 34.167 ***** 27.41 067 067 0.5057
 483 0.73 34.121 *****

8月(August)

KOREA , CHUN MA SAN , STATION 105-03 , 37-33.2. N, 123-10.3. E, AUG. 7.1982, 12:40 KST, DEPTH 48 , COLOR 4, TRANS. 20.0,
 WAVE SW 1, SWELL SW 1, WIND SW 1, BARO 1001. , AIR TEMP. DRY 27.9, WET , CLOUD. TYPE ST, AMT 05, WEATHER BC,
 0 24.17 33.492 ***** 0 24.17 33.492 ***** 22.47 538 537 0.0000
 10 20.20 34.480 ***** 10 20.20 34.480 ***** 24.33 360 360 0.0449
 20 16.60 33.482 ***** 20 16.60 33.482 ***** 24.46 348 348 0.0803
 30 15.74 33.346 ***** 30 15.74 33.346 ***** 24.55 339 339 0.1147
 45 13.32 *****

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY
KOREA .CHUN MA SAN , STATION 105-04 , 37-33.2. N, 129-15.5. E, AUG. 7.1982, 10:20 KST, DEPTH 250 , COLOR 3, TRANS. 24.0, WAVE SW 1, SWELL SW 1, WIND SW 1, BARD 1001. , AIR TEMP. DRY 25.7, WET , CLOUD. TYPE ST, AMT 05, WEATHER BC,																	
0	24.12	33.333	*****							0	24.12	33.333	*****	22.36	548	547	0.0000
10	21.57	33.508	*****							10	21.57	33.508	*****	23.22	466	466	0.0506
20	17.30	33.484	*****							20	17.30	33.484	*****	24.30	363	363	0.0921
30	16.72	33.511	*****							30	16.72	33.511	*****	24.45	348	349	0.1278
50	12.88	33.733	*****							50	12.88	33.733	*****	25.45	253	254	0.1882
75	4.05	33.770	*****							75	4.05	33.770	*****	26.82	123	123	0.2354
101	3.28	33.823	*****							100	3.30	33.820	*****	26.93	112	113	0.2651
125	2.37	33.820	*****							125	2.37	33.820	*****	27.02	105	105	0.2924
148	1.75	33.833	*****							150	1.73	33.840	*****	27.08	098	098	0.3179
195	1.37	34.006	*****														
KOREA .CHUN MA SAN , STATION 105-05 , 37-33.2. N, 129-22.6. E, AUG. 7.1982, 08:25 KST, DEPTH 380 , COLOR 3, TRANS. 24.0, WAVE SE 1, SWELL SE 1, WIND SE 1, BARD 1001. , AIR TEMP. DRY 27.7, WET , CLOUD. TYPE CI, AMT 03, WEATHER BC,																	
0	24.02	33.082	*****							0	24.02	33.082	*****	22.20	563	563	0.0000
10	22.76	33.244	*****							10	22.76	33.244	*****	22.69	516	516	0.0540
20	20.86	33.584	*****							20	20.86	33.584	*****	23.47	442	442	0.1019
30	17.62	34.226	*****							30	17.62	34.226	*****	24.79	316	317	0.1399
50	10.98	34.190	*****							50	10.98	34.190	*****	26.16	185	186	0.1903
75	6.61	34.190	*****							75	6.61	34.190	*****	26.85	120	121	0.2289
103	4.47	34.033	*****							100	4.69	34.049	*****	26.97	109	109	0.2578
127	3.30	34.054	*****							125	3.39	34.052	*****	27.11	096	096	0.2836
150	2.68	34.041	*****							150	2.68	34.041	*****	27.17	090	091	0.3071
198	1.71	34.073	*****							200	1.69	34.072	*****	27.27	080	081	0.3502

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA.T	D.T	SVA	D DY

245 1.37 34.066 ***** 250 1.32 34.066 ***** 27.29 078 079 0.3904

252 0.97 34.074 *****

KOREA .CHUN MA SAN , STATION 105-06 , 37-33.2. N, 129-41.3. E, AUG. 7.1982, 05:35 KST, DEPTH 810 , COLOR , TRANS. ,

WAVE W 1, SWELL W 1, WIND W 1, BARO 1000. , AIR TEMP. DRY 25.5, WET , CLOUD. TYPE ST, AMT 07, WEATHER BC,

0	24.61	33.102	*****							0	24.61	33.102	*****	22.04	578	578	0.0000
10	23.47	34.040	*****							10	23.47	34.040	*****	23.09	478	478	0.0528
20	19.55	34.132	*****							20	19.55	34.132	*****	24.23	369	369	0.0953
30	16.09	34.232	*****							30	16.09	34.232	*****	25.15	282	282	0.1279
50	14.03	34.245	*****							50	14.03	34.245	*****	25.61	238	239	0.1801
75	12.91	34.311	*****							75	12.91	34.311	*****	25.89	211	213	0.2367
100	7.56	34.168	*****							100	7.56	34.168	*****	26.70	134	136	0.2804
127	3.98	34.034	*****							125	4.24	34.043	*****	27.02	104	105	0.3106
151	2.75	34.007	*****							150	2.80	34.008	*****	27.13	094	094	0.3356
199	1.99	34.059	*****							200	1.97	34.059	*****	27.24	084	084	0.3805
247	1.30	34.061	*****							250	1.29	34.061	*****	27.29	079	079	0.4214
294	1.24	34.069	*****							300	1.23	34.069	*****	27.30	078	078	0.4609
390	1.12	34.070	*****							400	1.05	34.069	*****	27.31	077	077	0.5387
486	0.51	34.066	*****														

KOREA .CHUN MA SAN , STATION 105-07 , 37-33.2. N, 130-00.0. E, AUG. 7.1982, 02:30 KST, DEPTH 1480 , COLOR , TRANS. ,

WAVE SW 1, SWELL SW 1, WIND SW 1, BARO 1001. , AIR TEMP. DRY 25.0, WET , CLOUD. TYPE ST, AMT 04, WEATHER BC,

0	24.09	33.732	*****							0	24.09	33.732	*****	22.67	518	518	0.0000
10	23.83	33.945	*****							10	23.83	33.945	*****	22.91	495	495	0.0507
20	23.10	33.906	*****							20	23.10	33.906	*****	23.09	478	478	0.0994

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY
30	22.37	34.071	*****							30	22.37	34.071	*****	23.43	446	447	0.1457
50	15.39	34.048	*****							50	15.39	34.048	*****	25.17	280	281	0.2186
75	15.22	34.220	*****							75	15.22	34.220	*****	25.34	264	266	0.2871
99	12.08	34.286	*****							100	11.89	34.278	*****	26.06	195	197	0.3450
134	5.66	34.021	*****							125	7.31	34.089	*****	26.67	137	139	0.3871
158	2.69	34.006	*****							150	3.68	34.011	*****	27.05	101	102	0.4173
205	2.33	34.039	*****							200	2.36	34.035	*****	27.19	088	089	0.4653
252	1.62	34.058	*****							250	1.65	34.057	*****	27.26	081	082	0.5082
300	1.30	34.060	*****							300	1.30	34.060	*****	27.29	079	079	0.5487
396	0.90	34.041	*****							400	0.88	34.042	*****	27.30	078	078	0.6276
490	0.66	34.084	*****														

KOREA : CHUN MA SAN , STATION 105-08 ; 37-33.2. N, 130-18.7. E, AUG. 6, 1982, 23:45 KST, DEPTH 1503 , COLOR , TRANS. ,

WAVE SW 1, SWELL SW 1, WIND SW 1, BARO 1001. ; AIR TEMP. DRY 25.7. WET , CLOUD. TYPE NS, AMT 03, WEATHER BC.

0	25.60	33.897	*****							0	25.60	33.897	*****	22.34	550	549	0.0000
10	23.24	34.036	*****							10	23.24	34.036	*****	23.15	472	472	0.0511
20	18.50	34.132	*****							20	18.50	34.132	*****	24.50	344	344	0.0920
30	16.69	34.507	*****							30	16.69	34.507	*****	25.22	275	275	0.1230
50	16.59	34.480	*****							50	16.59	34.480	*****	25.23	275	276	0.1782
75	16.09	34.432	*****							75	16.09	34.432	*****	25.30	267	269	0.2464
100	13.63	34.453	*****							100	13.63	34.453	*****	25.86	215	217	0.3072
129	10.55	34.425	*****							125	10.97	34.428	*****	26.35	168	170	0.3557
153	9.05	34.360	*****							150	9.23	34.368	*****	26.60	144	147	0.3955
201	6.98	34.300	*****							200	7.02	34.301	*****	26.88	117	120	0.4623
248	3.29	34.220	*****							250	3.19	34.215	*****	27.26	082	083	0.5133

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

295 1.14 34.110 *****
391 0.84 34.054 *****
487 0.47 34.053 *****

KOREA ,CHUN MA SAN , STATION 105-09 , 37-33.2. N, 130-37.5. E, AUG. 6.1982, 21:00 KST, DEPTH 1140 , COLOR , TRANS.

WAVE SW 1, SWELL SW 1, WIND SW 1, BARO 1001. , AIR TEMP. DRY 25.7, WET , CLOUD. TYPE C1, ANT 01, WEATHER B ,

0	24.75	33.455	*****							0	24.75	33.455	*****	22.27	557	556	0.0000
10	23.74	33.757	*****							10	23.74	33.757	*****	22.79	506	506	0.0531
20	20.41	34.099	*****							20	20.41	34.099	*****	23.98	393	393	0.0982
30	18.37	34.220	*****							30	18.37	34.220	*****	24.60	334	335	0.1346
50	16.23	34.329	*****							50	16.23	34.329	*****	25.19	278	279	0.1961
75	14.59	34.350	*****							75	14.59	34.350	*****	25.57	241	243	0.2615
99	14.23	34.373	*****							100	14.10	34.365	*****	25.69	231	233	0.3211
130	10.49	34.132	*****							125	11.09	34.170	*****	26.13	189	191	0.3742
154	4.92	34.039	*****							150	5.84	34.054	*****	26.84	121	123	0.4136
202	2.33	34.039	*****							200	2.43	34.039	*****	27.18	089	089	0.4668
250	1.53	34.048	*****							250	1.53	34.048	*****	27.26	081	082	0.5097
297	0.95	34.057	*****							300	0.93	34.056	*****	27.31	077	077	0.5496
394	0.60	34.048	*****							400	0.59	34.047	*****	27.32	076	075	0.6261
490	0.48	34.035	*****														

KOREA ,CHUN MA SAN , STATION 105-10 , 37-33.2. N, 130-55.9. E, AUG. 6.1982, 16:10 KST, DEPTH 1800 , COLOR 2, TRANS. 30.0,

WAVE SW 1, SWELL SW 1, WIND SW 2, BARO 1000. , AIR TEMP. DRY 27.2, WET , CLOUD. TYPE C1, ANT 02, WEATHER B ,

0	24.70	33.976	*****							0	24.70	33.976	*****	22.68	518	517	0.0000
10	23.94	34.106	*****							10	23.94	34.106	*****	23.00	487	487	0.0502
20	23.41	34.371	*****							20	23.41	34.371	*****	23.35	453	453	0.0973

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY
30	20.89	34.366	*****							30	20.89	34.366	*****	24.06	386	387	0.1393
50	17.33	34.340	*****							50	17.33	34.340	*****	24.94	301	303	0.2083
75	14.73	34.320	*****							75	14.73	34.320	*****	25.52	246	248	0.2773
98	9.35	34.293	*****							100	9.18	34.282	*****	26.54	149	151	0.3273
138	6.10	34.091	*****							125	7.15	34.156	*****	26.75	130	131	0.3627
161	3.23	34.051	*****							150	4.60	34.070	*****	27.00	106	107	0.3927
209	2.81	34.045	*****							200	2.88	34.046	*****	27.15	092	093	0.4429
256	2.52	34.047	*****							250	2.55	34.046	*****	27.18	089	090	0.4887
302	1.15	34.051	*****							300	1.20	34.050	*****	27.29	079	079	0.5312
397	0.61	34.054	*****							400	0.60	34.054	*****	27.33	075	075	0.6087
492	0.60	34.060	*****														
KOREA . CHUJ MA SAN . STATION 105-11 . 37-33.2. N. 131-14.6. E. AUG. 6.1982. 13:15 KST. DEPTH 2375 . COLOR 3. TRANS. 25.0,																	
WAVE SE 1. SWELL SE 1, WIND SE 2, BARO 1000. , AIR TEMP. DRY 25.7. WET . CLOUD. TYPE CI, AMT 01, WEATHER B ,																	
0	24.59	34.054	*****							0	24.59	34.054	*****	22.77	509	509	0.0000
10	24.04	34.085	*****							10	24.04	34.085	*****	22.95	491	491	0.0500
20	23.09	34.085	*****							20	23.09	34.085	*****	23.23	465	465	0.0978
30	16.31	34.077	*****							30	16.31	34.077	*****	24.98	298	298	0.1361
50	12.42	34.063	*****							50	12.42	34.063	*****	25.80	220	221	0.1881
75	10.09	34.120	*****							75	10.09	34.120	*****	26.27	176	177	0.2380
99	9.10	34.100	*****							100	8.92	34.099	*****	26.44	159	161	0.2803
132	3.15	34.080	*****							125	4.55	34.084	*****	27.02	104	105	0.3137
157	2.31	34.083	*****							150	2.55	34.082	*****	27.21	086	087	0.3378
205	1.63	34.046	*****							200	1.70	34.049	*****	27.25	082	083	0.3804
252	1.08	34.066	*****							250	1.10	34.065	*****	27.30	077	077	0.4206

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

300	0.83	34.064	*****							300	0.83	34.064	*****	27.32	076	076	0.4590
397	0.56	34.063	*****							400	0.55	34.062	*****	27.34	074	074	0.5342
492	0.32	34.059	*****														

10月(October)

KOREA .CHUM MA SAN , STATION 105-03 , 37-33.2. N, 129-10.3. E, OCT. 8.1982, 07:20 KST. DEPTH 48 , COLOR , TRANS.
 WAVE NW 3, SWELL NW 2, WIND NW 4, BARO 1009. , AIR TEMP. DRY 18.5, WET , CLOUD. TYPE ST, AMT 06, WEATHER BC.
 0 20.72 32.974 5.02 0 20.72 32.974 5.02 23.06 481 481 0.0000
 10 20.71 32.960 5.02 10 20.71 32.960 5.02 23.04 483 483 0.0482
 20 15.44 33.686 5.33 20 15.44 33.686 5.33 24.88 308 308 0.0878
 30 8.68 34.208 5.45 30 8.68 34.208 5.45 26.56 147 148 0.1106
 45 6.18 34.219 5.11

KOREA .CHUM MA SAN , STATION 105-04 , 37-33.2. N, 129-15.5. E, OCT.11.1982, 07:20 KST, DEPTH 250 , COLOR 4, TRANS. 11.0,
 WAVE SW 2, SWELL SW 2, WIND SW 3, BARO 1017. , AIR TEMP. DRY 29.5, WET , CLOUD. TYPE CI, AMT 01, WEATHER B ,
 0 19.79 33.051 5.30 0 19.79 33.051 5.30 23.35 453 453 0.0000
 10 18.32 33.271 5.20 10 18.32 33.271 5.20 23.89 402 402 0.0428
 20 13.29 34.115 5.35 20 13.29 34.115 5.35 25.66 233 233 0.0746
 30 10.68 34.284 5.07 30 10.68 34.284 5.07 26.29 173 174 0.0950
 50 6.37 34.211 5.02 50 6.37 34.211 5.02 26.90 116 116 0.1240
 75 2.70 34.119 5.87 75 2.70 34.119 5.87 27.23 085 085 0.1492
 99 1.96 34.089 6.15 100 1.94 34.088 6.14 27.26 081 081 0.1701
 130 1.42 34.076 5.94 125 1.50 34.078 5.97 27.29 079 079 0.1902
 153 1.34 34.088 5.94 150 1.35 34.086 5.94 27.30 077 077 0.2098

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY
202	1.09	34.096	5.87							200	1.10	34.095	5.87	27.33	075	075	0.2481
247	1.03	34.094	5.96														
KOREA : CHUN MA SAN , STATION 105-05 , 37-33.2. N, 129-22.6. E, OCT.11.1982, 09:00 KST, DEPTH 380 , COLOR 4, TRANS. 11.5, WAVE SW 3, SWELL SW 1, WIND SW 3, BARO 1017. , AIR TEMP. DRY 19.5, WET , CLOUD. TYPE CI, AMT 01, WEATHER B ,																	
0	19.27	33.112	5.30							0	19.27	33.112	5.30	23.53	436	436	0.0000
10	19.18	33.095	****							10	19.18	33.095	5.28	23.54	435	435	0.0436
20	18.21	33.266	5.27							20	18.21	33.266	5.27	23.91	400	400	0.0854
30	12.10	34.199	4.92							30	12.10	34.199	4.92	25.96	204	205	0.1157
50	6.97	34.233	5.11							50	6.97	34.233	5.11	26.84	122	122	0.1485
75	3.49	34.126	5.58							75	3.49	34.126	5.58	27.16	091	091	0.1753
100	2.10	34.080	5.96							100	2.10	34.080	5.96	27.24	083	083	0.1972
125	1.62	34.089	5.58							125	1.62	34.089	5.58	27.29	079	079	0.2175
150	1.42	34.076	5.68							150	1.42	34.076	5.68	27.29	078	078	0.2373
200	0.98	34.084	5.96							200	0.98	34.084	5.96	27.33	075	075	0.2759
250	0.86	34.083	5.75							250	0.86	34.083	5.75	27.33	074	074	0.3134
300	0.74	34.084	5.87							300	0.74	34.084	5.87	27.34	074	073	0.3506
378	0.64	34.089	5.87														
KOREA : CHUN MA SAN , STATION 105-06 , 37-33.2. N, 129-41.3. E, OCT.11.1982, 11:40 KST, DEPTH 810 , COLOR 3, TRANS. 16.0, WAVE SE 3, SWELL SE 2, WIND SE 3, BARO 1015. , AIR TEMP. DRY 19.8, WET , CLOUD. TYPE CI, AMT 01, WEATHER B ,																	
0	21.53	33.016	5.11							0	21.53	33.016	5.11	22.86	500	500	0.0000
10	21.45	32.966	5.02							10	21.45	32.966	5.02	22.84	502	502	0.0501
20	21.41	32.968	5.11							20	21.41	32.968	5.11	22.86	501	501	0.1003
30	21.37	32.995	4.89							30	21.37	32.995	4.89	22.89	498	498	0.1503
50	19.65	33.503	4.26							50	19.65	33.503	4.26	23.73	417	418	0.2420

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
75	13.59	34.277	4.26							75	13.59	34.277	4.26	25.73	227	228	0.3230
99	7.00	34.230	4.97							100	6.90	34.228	4.97	26.84	121	122	0.3670
130	4.03	34.178	5.20							125	4.50	34.186	5.16	27.10	096	097	0.3945
156	3.38	34.167	5.30							150	3.83	34.169	5.27	27.19	088	089	0.4179
198	2.25	34.065	5.96							200	2.22	34.066	5.96	27.22	085	085	0.4617
242	1.70	34.090	5.96							250	1.65	34.091	5.96	27.29	079	079	0.5031
287	1.44	34.100	5.96							300	1.38	34.098	5.96	27.31	076	077	0.5424
382	1.01	34.092	5.96							400	0.99	34.092	5.95	27.33	074	075	0.6185
470	0.93	34.093	5.94														

KOREA . CORU HA SAN . STATION 105-07 . 37-33.2. N. 130-00.0. E. OCT.11.1992. 14:20 EST. DEPTH 1480 , COLOR 3, TRANS. 21.0.
 WAVE SE 4, SWELL SE 2, WIND SE 4, BARO 1014.5, AIR TEMP. DRY 20.5, WET , CLOUD. TYPE CI, AMT 01, WEATHER B ,

0	21.66	33.084	4.92							0	21.66	33.084	4.92	22.87	499	498	0.0000
10	21.60	33.055	5.27							10	21.60	33.055	5.27	22.87	499	499	0.0499
20	21.50	33.051	5.02							20	21.50	33.051	5.02	22.89	497	497	0.0998
30	21.42	33.087	5.02							30	21.42	33.087	5.02	22.94	492	493	0.1493
50	16.06	33.845	4.26							50	16.06	33.845	4.26	24.86	309	310	0.2297
75	15.42	34.262	4.35							75	15.42	34.262	4.35	25.32	265	267	0.3020
100	14.42	34.266	4.45							100	14.42	34.266	4.45	25.55	244	246	0.3663
131	13.76	34.377	4.76							125	13.88	34.388	4.70	25.73	227	230	0.4260
157	11.73	34.320	5.42							150	12.27	34.335	5.24	26.03	198	201	0.4799
201	5.18	34.120	5.96							200	5.32	34.124	5.94	26.96	110	112	0.5584
245	3.22	34.064	5.94							250	3.62	34.064	5.94	27.15	091	093	0.6097
289	1.54	34.072	5.96							300	1.44	34.074	5.96	27.29	079	079	0.6529
382	0.74	34.091	5.96							400	0.71	34.091	5.89	27.35	073	073	0.7294

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA .CHUN MA SAN . STATION 105-08 . 37-33.2. N, 130-18.7. E, OCT.11.1982. 16:55 KST, DEPTH 1503 , COLOR 3, TRANS. 23.0, WAVE SE 4, SWELL SE 2, WIND SE 4, BARO 1014. , AIR TEMP. DRY 20.0, WET , CLOUD. TYPE CI, AMT 01, WEATHER B ,																	
0	21.70	33.008	4.92							0	21.70	33.008	4.92	22.81	505	505	0.0000
10	21.60	32.990	5.02							10	21.60	32.990	5.02	22.82	504	504	0.0504
20	21.59	32.983	5.20							20	21.59	32.983	5.20	22.82	504	504	0.1009
30	21.53	32.968	5.02							30	21.53	32.968	5.02	22.82	504	504	0.1514
50	19.61	33.597	4.58							50	19.61	33.597	4.58	23.81	409	411	0.2430
75	15.53	33.922	4.26							75	15.53	33.922	4.26	25.04	292	294	0.3312
99	14.54	34.295	4.38							100	14.50	34.297	4.39	25.55	244	246	0.3988
135	13.43	34.377	4.88							125	13.73	34.354	4.74	25.76	224	227	0.4581
159	10.16	34.170	5.49							150	11.38	34.247	5.26	26.13	188	191	0.5105
208	5.96	34.142	5.84							200	6.64	34.146	5.78	26.81	124	126	0.5902
255	3.19	34.075	5.65							250	3.48	34.082	5.67	27.12	094	096	0.6460
301	1.63	34.070	5.84							300	1.66	34.070	5.83	27.27	080	081	0.6904
396	0.74	34.055	5.68							400	0.72	34.056	5.68	27.32	076	076	0.7692
490	0.47	34.082	5.68														
KOREA .CHUN MA SAN . STATION 105-09 . 37-33.2. N, 130-37.5. E, OCT.11.1982. 19:30 KST, DEPTH 1140 . COLOR , TRANS. ,																	
WAVE SE 4, SWELL SE 1, WIND SE 4, BARO 1014. , AIR TEMP. DRY 19.0, WET , CLOUD. TYPE CI, AMT 01, WEATHER B ,																	
0	21.22	32.849	5.49							0	21.22	32.849	5.49	22.82	504	504	0.0000
10	21.17	32.813	5.02							10	21.17	32.813	5.02	22.80	506	506	0.0505
20	21.11	32.807	5.11							20	21.11	32.807	5.11	22.81	504	505	0.1010
30	21.06	32.833	5.18							30	21.06	32.833	5.18	22.85	501	502	0.1514
50	21.04	33.226	4.83							50	21.04	33.226	4.83	23.15	472	474	0.2491
75	17.71	34.210	4.35							75	17.71	34.210	4.35	24.75	320	321	0.3486

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
100	15.65	34.263	4.35							100	15.65	34.263	4.35	25.27	270	272	0.4229
136	12.70	34.427	4.83							125	13.60	34.376	4.68	25.80	220	223	0.4849
162	9.83	34.438	5.42							150	11.15	34.432	5.14	26.32	170	174	0.5346
208	7.00	34.373	5.73							200	7.49	34.384	5.67	26.88	117	120	0.6083
253	4.47	34.209	5.97							250	4.63	34.238	5.95	27.13	094	096	0.6626
301	1.97	34.120	5.97							300	2.02	34.122	5.97	27.28	079	080	0.7068
397	0.91	34.068	6.06							400	0.89	34.068	6.05	27.32	076	076	0.7852
491	0.50	34.068	5.87														

KOREA , CHUN MA SAN , STATION 105-10 , 37-33.2. N, 130-55.9. E, OCT.11.1982, 22:00 KST, DEPTH 1800 , COLOR , TRANS.
 WAVE SW 3, SWELL SW 1, WIND SW 3, BARO 1015. , AIR TEMP. DRY 19.6, WET , CLOUD. TYPE CI, AMT 01, WEATHER B ,

0	21.78	32.960	5.11							0	21.78	32.960	5.11	22.75	511	511	0.0000
10	21.77	32.934	4.92							10	21.77	32.934	4.92	22.73	512	512	0.0511
20	21.76	32.923	4.92							20	21.76	32.923	4.92	22.73	513	513	0.1025
30	21.72	32.929	4.92							30	21.72	32.929	4.92	22.74	511	512	0.1538
50	21.71	32.930	4.73							50	21.71	32.930	4.73	22.74	511	512	0.2564
75	16.53	34.179	4.54							75	16.53	34.179	4.54	25.01	295	297	0.3577
99	14.10	34.356	****							100	13.96	34.356	4.88	25.71	228	231	0.4237
130	9.95	34.361	5.30							125	10.61	34.360	5.23	26.36	167	169	0.4738
158	7.56	34.265	5.57							150	8.24	34.292	5.49	26.70	135	137	0.5122
204	4.93	34.152	5.77							200	5.15	34.161	5.75	27.01	105	107	0.5735
252	2.22	34.065	6.35							250	2.33	34.068	6.32	27.22	085	086	0.6221
299	1.51	34.065	5.86							300	1.50	34.064	5.86	27.28	080	080	0.6640
394	1.12	34.049	6.05							400	1.09	34.049	6.03	27.29	078	079	0.7439
490	0.65	34.060	5.87														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA , CHUN MA SAN , STATION 105-11 , 37-33.2. N, 131-14.6. E, OCT.12.1982, 00:40 KST, DEPTH 2375 , COLOR , TRANS.

WAVE SW 3, SWELL SW 2, WIND SW 4, BARO 1014.5, AIR TEMP. DRY 19.8, WET , CLOUD. TYPE CI, AMT 02, WEATHER B ,

0	21.60	32.911	4.89							0	21.60	32.911	4.89	22.76	510	509	0.0000
10	21.57	32.865	4.89							10	21.57	32.865	4.89	22.73	512	512	0.0511
20	21.48	32.971	4.89							20	21.48	32.971	4.89	22.85	501	501	0.1018
30	21.47	33.025	4.89							30	21.47	33.025	4.89	22.88	498	499	0.1518
50	19.26	33.489	5.16							50	19.26	33.489	5.16	23.82	407	410	0.2428
75	14.34	34.254	4.92							75	14.34	34.254	4.92	25.55	243	245	0.3248
99	11.04	34.375	5.17							100	10.94	34.372	5.18	26.31	171	173	0.3772
135	7.72	34.276	5.86							125	8.64	34.303	5.66	26.64	140	142	0.4167
158	6.02	34.166	5.85							150	6.61	34.204	5.85	26.86	119	121	0.4497
205	4.39	34.111	6.05							200	4.56	34.116	6.02	27.04	102	104	0.5061
252	2.56	34.082	6.25							250	2.63	34.083	6.24	27.20	087	088	0.5542
300	1.75	34.065	6.06							300	1.75	34.065	6.06	27.26	081	082	0.5970
396	0.75	34.064	6.16							400	0.73	34.063	6.14	27.33	075	075	0.6760
490	0.47	34.054	5.86														

12月(December)

KOREA , CHUN MA SAN , STATION 105-03 , 37-33.2. N, 129-10.3. E, DEC. 9.1982, 21:45 KST, DEPTH 48 , COLOR , TRANS.

WAVE W 3, SWELL W 1, WIND W 3, BARO 1017. , AIR TEMP. DRY 6.3, WET , CLOUD. TYPE , AMT , WEATHER BC.

0	11.57	33.754	6.18							0	11.57	33.754	6.18	25.72	228	227	0.0000
10	11.54	33.745	6.38							10	11.54	33.745	6.38	25.72	228	228	0.0228
20	11.53	33.746	6.28							20	11.53	33.746	6.28	25.72	228	228	0.0456
70	11.51	33.748	6.18							70	11.51	33.748	6.18	25.72	227	228	0.0684

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY

KOREA , CHUN MA SAN , STATION 105-04 , 37-33.2. N, 129-15.5. E, DEC. 9.1982, 20:30 KST, DEPTH 250 , COLOR , TRANS.

WAVE W 3, SWELL W 1, WIND W 4, BARO 1017. , AIR TEMP. DRY 6.8, WET , CLOUD. TYPE , AMT , WEATHER BC,

0	11.34	33.738	6.18							0	11.34	33.738	6.18	25.75	225	225	0.0000
10	11.33	33.707	6.18							10	11.33	33.707	6.18	25.75	227	227	0.0226
20	11.36	33.704	5.98							20	11.36	33.704	5.98	25.72	228	228	0.0454
30	11.36	33.708	5.88							30	11.36	33.708	5.88	25.72	227	228	0.0682
50	11.26	33.729	5.88							50	11.26	33.729	5.88	25.75	224	225	0.1136
75	11.23	33.972	6.09							75	11.23	33.972	6.09	25.95	206	207	0.1677
100	6.66	33.000	6.38							100	6.66	33.000	6.38	25.91	210	211	0.2201
124	3.70	34.033	****							125	3.62	34.033	6.43	27.07	099	100	0.2590
147	2.06	34.058	6.48							150	2.01	34.058	6.48	27.22	085	086	0.2823
194	1.39	34.049	6.48														

KOREA , CHUN MA SAN , STATION 105-05 , 37-33.2. N, 129-22.6. E, DEC. 9.1982, 19:10 KST, DEPTH 380 , COLOR , TRANS.

WAVE W 3, SWELL W 1, WIND W 4, BARO 1017. , AIR TEMP. DRY 5.5, WET , CLOUD. TYPE , AMT , WEATHER BC,

0	12.58	33.866	6.08							0	12.58	33.866	6.08	25.61	238	237	0.0000
10	12.57	33.845	6.48							10	12.57	33.845	6.48	25.60	239	239	0.0238
20	11.96	33.807	6.18							20	11.96	33.807	6.18	25.69	231	231	0.0474
30	11.46	33.756	6.28							30	11.46	33.756	6.28	25.74	226	226	0.0703
50	11.26	33.745	6.18							50	11.26	33.745	6.18	25.77	223	224	0.1154
75	10.52	33.857	****							75	10.52	33.857	6.04	25.99	202	204	0.1689
105	5.46	34.136	5.88							100	6.30	34.089	5.90	26.81	124	125	0.2101
124	4.66	34.092	5.88							125	4.64	34.090	5.89	27.01	105	106	0.2391
153	4.25	34.053	6.18							150	4.29	34.057	6.14	27.02	104	105	0.2655
201	1.72	34.035	6.28							200	1.77	34.035	6.27	27.23	084	084	0.3131

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
249	1.18	34.047	6.08							250	1.17	34.047	6.08	27.29	079	079	0.3541
296	1.01	34.049	6.18														
KOREA ,CHUM MA SAN , STATION 105-06 , 37-33.2. N, 127-41.3. E, DEC. 9.1982, 16:40 KST, DEPTH 810 , COLOR , TRANS.																	
WAVE SW 2, SWELL SW 1, WIND SW 2, BARO 1017.5, AIR TEMP. DRY 9.1, WET , CLOUD. TYPE C1, AMT 02, WEATHER B ,																	
0	16.09	34.025	5.98							0	16.09	34.025	5.98	24.99	297	296	0.0000
10	16.04	33.963	5.88							10	16.04	33.963	5.88	24.96	300	300	0.0298
20	15.56	33.980	6.08							20	15.56	33.980	6.08	25.08	289	289	0.0593
30	14.00	33.970	6.18							30	14.00	33.970	6.18	25.41	257	258	0.0867
50	12.90	33.971	5.98							50	12.90	33.971	5.98	25.63	236	237	0.1363
75	7.47	34.178	5.69							75	7.47	34.178	5.69	26.72	132	133	0.1827
100	5.39	34.120	6.18							100	5.39	34.120	6.18	26.95	111	112	0.2135
125	5.01	34.054	5.78							125	5.06	34.063	5.83	26.94	111	113	0.2416
153	4.61	34.047	6.18							150	4.66	34.047	6.13	26.98	108	109	0.2695
202	2.01	34.046	*****							200	2.11	34.046	5.85	27.22	086	086	0.3186
250	0.98	34.059	5.88							250	0.98	34.059	5.88	27.31	077	077	0.3596
297	0.77	34.057	5.98							300	0.76	34.057	5.98	27.32	076	076	0.3979
394	0.54	34.059	5.98							400	0.52	34.057	5.96	27.33	074	074	0.4733
490	0.36	34.040	5.78														
KOREA ,CHUM MA SAN , STATION 105-07 , 37-33.2. N, 130-00.0. E, DEC. 9.1982, 13:50 KST, DEPTH 1480 , COLOR 4, TRANS. 17.0.																	
WAVE NW 2, SWELL NW 1, WIND NW 2, BARO 1025. , AIR TEMP. DRY 9.0, WET , CLOUD. TYPE C1, AMT 03, WEATHER BC,																	
0	14.87	34.030	5.59							0	14.87	34.030	5.59	25.27	271	270	0.0000
10	14.84	33.980	5.89							10	14.84	33.980	5.89	25.24	274	274	0.0272
20	14.62	33.984	5.88							20	14.62	33.984	5.88	25.29	269	269	0.0544
30	14.61	33.961	5.68							30	14.61	33.961	5.68	25.27	270	271	0.0814

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
50	12.26	34.198	5.68							50	12.26	34.198	5.68	25.93	207	208	0.1294
75	7.24	34.198	5.68							75	7.24	34.198	5.68	26.77	128	129	0.1717
99	5.20	34.143	6.08							100	5.15	34.140	6.07	26.99	107	107	0.2013
130	3.73	34.066	5.98							125	3.96	34.078	5.99	27.07	099	100	0.2273
159	2.51	34.055	6.48							150	2.88	34.058	6.32	27.16	091	091	0.2514
207	2.42	34.025	6.48							200	2.43	34.029	6.48	27.18	089	090	0.2969
254	1.27	34.025	5.78							250	1.36	34.025	5.83	27.25	082	082	0.3402
301	0.81	34.027	5.78							300	0.81	34.026	5.78	27.29	078	078	0.3805
357	0.42	34.038	5.88							400	0.41	34.037	5.88	27.32	075	075	0.4576
493	0.33	34.035	5.98														

KOREA , CHUN MA SAN , STATION 105-08 , 37-33.2. N, 130-18.7. E, DEC. 9.1982, 10:50 KST, DEPTH 1503 , COLOR 4, TRANS. 18.0.
 WAVE NW 2, SWELL NW 1, WIND NW 2, BARO 1025. , AIR TEMP. DRY 9.0, WET , CLOUD. TYPE CI, AMT 03, WEATHER BC,

0	15.96	33.956	5.39							0	15.96	33.956	5.39	24.97	299	299	0.0000
10	15.92	33.993	5.49							10	15.92	33.993	5.49	25.01	295	295	0.0297
20	15.61	33.992	5.49							20	15.61	33.992	5.49	25.08	289	289	0.0590
30	15.11	33.996	5.29							30	15.11	33.996	5.29	25.19	278	279	0.0874
50	14.81	33.995	5.29							50	14.81	33.995	5.29	25.25	272	273	0.1427
75	14.48	33.965	5.29							75	14.48	33.965	5.29	25.30	267	269	0.2105
98	10.43	34.264	5.59							100	10.28	34.262	5.59	26.34	168	170	0.2655
131	7.98	34.239	5.69							125	8.42	34.243	5.67	26.63	141	143	0.3048
159	6.55	34.202	5.88							150	7.00	34.213	5.81	26.81	124	126	0.3385
207	3.17	34.058	6.38							200	3.66	34.079	6.30	27.11	096	097	0.3945
254	2.38	34.046	6.48							250	2.44	34.047	6.47	27.19	088	089	0.4413
301	1.61	34.031	6.18							300	1.62	34.031	6.18	27.24	087	088	0.4812

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY

397	0.96	34.043	6.18							400	0.94	34.042	6.16	27.30	078	078	0.5660
492	0.59	34.031	5.59														
KOREA .CHUN MA SAN , STATION 105-09 , 37-33.2. N, 130-37.5. E, DEC. 9.1982, 07:50 KST, DEPTH 1140 , COLOR 4, TRANS. 16.0,																	
WAVE SW 2, SWELL SW 1, WIND SW 2, BARO 1025. , AIR TEMP. DRY 9.2, WET , CLOUD. TYPE CI, AMT 04, WEATHER BC,																	
0	17.05	34.003	5.28							0	17.05	34.003	5.28	24.75	320	319	0.0000
10	17.06	33.991	5.68							10	17.06	33.991	5.68	24.74	321	321	0.0320
20	17.04	33.995	5.59							20	17.04	33.995	5.59	24.75	320	320	0.0641
30	17.03	33.988	5.39							30	17.03	33.988	5.39	24.75	320	321	0.0962
50	16.99	33.996	5.78							50	16.99	33.996	5.78	24.76	319	320	0.1604
75	16.96	33.993	5.29							75	16.96	33.993	5.29	24.77	318	320	0.2405
98	16.55	34.160	5.59							100	16.34	34.161	5.57	25.04	292	295	0.3175
130	13.29	34.190	5.39							125	13.79	34.185	5.42	25.61	238	241	0.3845
154	12.21	34.154	6.08							150	12.39	34.160	5.96	25.88	213	216	0.4417
202	6.16	34.057	6.08							200	6.41	34.061	6.08	26.77	127	130	0.5284
249	2.87	34.035	6.48							250	2.83	34.035	6.46	27.15	092	093	0.5844
296	1.42	34.041	5.98							300	1.38	34.040	5.98	27.27	081	081	0.6283
392	0.64	34.040	5.98							400	0.61	34.040	5.96	27.31	076	076	0.7073
487	0.39	34.043	5.78														

KOREA .CHUN MA SAN , STATION 105-10 , 37-33.2. N, 130-55.9. E, DEC. 9.1982, 05:00 KST, DEPTH 1800 , COLOR , TRANS. ,																	
WAVE SW 2, SWELL SW 1, WIND SW 2, BARO 1025. , AIR TEMP. DRY 8.1, WET , CLOUD. TYPE ST, AMT 06, WEATHER BC,																	
0	16.55	34.005	5.59							0	16.55	34.005	5.59	24.87	308	309	0.0000
10	16.55	33.989	****							10	16.55	33.989	5.59	24.86	309	309	0.0309
20	16.51	33.994	5.59							20	16.51	33.994	5.59	24.87	308	308	0.0618

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL P	NO2 N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA T	D T	SVA	U D Y
30	16.38	33.949	5.68							30	16.38	33.949	5.68	24.87	309	309	0.0927
50	15.39	33.950	5.78							50	15.39	33.950	5.78	25.09	287	288	0.1526
75	15.28	33.920	5.68							75	15.28	33.920	5.68	25.09	287	289	0.2249
100	15.00	33.992	5.69							100	15.00	33.992	5.69	25.21	276	276	0.2959
127	7.15	34.171	5.78							125	7.73	34.157	5.77	26.67	137	139	0.3482
151	6.78	34.120	6.08							150	6.79	34.122	6.06	26.77	128	130	0.3820
200	6.33	34.030	6.48							200	6.33	34.030	6.48	26.76	129	131	0.4474
248	1.88	34.034	6.38							250	1.64	34.034	6.37	27.23	084	085	0.5016
295	1.13	34.038	6.18							300	1.10	34.037	6.16	27.28	079	079	0.5430
352	0.67	34.032	5.98							400	0.60	34.031	5.96	27.31	077	077	0.6215
488	0.38	34.031	5.78														

KOREA , CHUN MA SAN , STATION 105-11 , 37-33.2. N. 131-14.6. E. DEC. 9. 1982. 02120 1ST. DEPTH 2375 , COLOR , TRANS.

WAVE NW 2, SWELL NW 1, WIND NW 2, BARO 1024. , AIR TEMP. DRY 6.0, WET , CLOUD. TYPE , AMT , WEATHER BC,

0	16.08	33.943	5.68							0	16.08	33.943	5.68	24.93	303	302	0.0000
10	16.09	33.929	5.68							10	16.09	33.929	5.68	24.92	304	304	0.0303
20	16.03	33.902	5.98							20	16.03	33.902	5.98	24.91	304	305	0.0608
30	15.99	33.888	5.58							30	15.99	33.888	5.58	24.91	305	305	0.0913
50	15.80	33.850	5.59							50	15.80	33.850	5.59	24.92	303	304	0.1524
75	15.46	33.791	5.68							75	15.46	33.791	5.68	24.95	300	302	0.2283
99	15.44	33.835	5.78							100	15.24	33.849	5.78	25.05	292	294	0.3029
128	9.72	34.252	5.89							125	10.31	34.208	5.87	26.30	173	175	0.3617
152	6.01	34.186	6.08							150	6.31	34.191	6.06	26.89	116	118	0.3985
200	5.41	34.176	5.88							200	5.41	34.176	5.88	26.99	107	109	0.4555
248	2.97	34.140	5.89							250	2.91	34.135	5.90	27.22	085	086	0.5046

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
295	1.73	34.034	6.28							300	1.67	34.034	6.25	27.24	083	084	0.5474
392	0.65	34.034	5.88							400	0.63	34.033	5.85	27.31	077	077	0.6281
489	0.41	34.026	5.59														

104線 海洋觀測 成績

Oceanographic Data. Line 104

OBSERVED										INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY	

2月(February)

KOREA ,CHUN MA SAN , STATION 104-04 , 37-03.4. N, 129-28.8. E, FEB. 8.1982, 10:20 KST, DEPTH 110 , COLOR 3, TRANS. 15.0,

WAVE NE 3, SWELL NE 2, WIND NE 3, BARO 1024. , AIR TEMP. DRY 3.0, WET , CLOUD. TYPE CI, AMT 03, WEATHER BC,

0	11.58	34.440	*****							0	11.58	34.440	*****	26.25	177	177	0.0000
10	11.73	34.460	*****							10	11.73	34.460	*****	26.24	179	179	0.0178
20	11.75	34.460	*****							20	11.75	34.460	*****	26.23	179	179	0.0757
30	11.78	34.470	*****							30	11.78	34.470	*****	26.23	179	179	0.0537
50	10.89	34.400	*****							50	10.89	34.400	*****	26.34	168	169	0.0886
75	8.33	34.230	*****							75	8.33	34.230	*****	26.64	141	142	0.1276
100	5.08	34.090	*****							100	5.08	34.090	*****	26.96	110	110	0.1592

KOREA ,CHUN MA SAN , STATION 104-05 , 37-03.4. N, 129-33.6. E, FEB.11.1982, 13:00 KST, DEPTH 220 , COLOR 3, TRANS. 20.0,

WAVE NE 1, SWELL NE 1, WIND SE 1, BARO 1019. , AIR TEMP. DRY 7.5, WET , CLOUD. TYPE CI, AMT 07, WEATHER BC,

0	11.45	34.450	*****							0	11.45	34.450	*****	26.28	174	174	0.0000
10	11.64	34.470	*****							10	11.64	34.470	*****	26.26	176	176	0.0175
20	11.61	34.470	*****							20	11.61	34.470	*****	26.27	176	176	0.0352
30	11.56	34.460	*****							30	11.56	34.460	*****	26.27	176	176	0.0538
50	10.67	34.470	*****							50	10.67	34.470	*****	26.44	159	160	0.0865
75	9.91	34.420	*****							75	9.91	34.420	*****	26.53	151	152	0.1257
100	8.29	34.390	*****							100	8.29	34.390	*****	26.77	128	130	0.1610
122	6.67	34.210	*****							125	6.35	34.191	*****	26.88	117	118	0.1921
148	3.98	34.050	*****							150	3.89	34.049	*****	27.06	100	101	0.2197

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY
KOREA ,CHUN MA SAN , STATION 104-06 , 37-03.4. N, 129-47.6. E, FEB.11.1982, 15:10 KST, DEPTH 600 , COLOR 3, TRANS. 18.0, WAVE S 2, SWELL S 1, WIND S 2, BARO 1019. , AIR TEMP. DRY 6.5, WET , CLOUD. TYPE CI, AMT 10, WEATHER C ,																	
0	9.90	34.420	*****							0	9.90	34.420	*****	26.53	150	150	0.0000
10	10.03	34.420	*****							10	10.03	34.420	*****	26.51	153	152	0.0151
20	9.35	34.390	*****							20	9.35	34.390	*****	26.60	144	144	0.0300
30	9.06	34.380	*****							30	9.06	34.380	*****	26.64	140	141	0.0443
50	6.95	34.200	*****							50	6.95	34.200	*****	26.81	124	124	0.0709
75	3.46	34.040	*****							75	3.46	34.040	*****	27.09	097	097	0.0987
98	2.49	34.010	*****							100	2.47	34.010	*****	27.16	091	091	0.1224
121	2.30	34.020	*****							125	2.19	34.023	*****	27.19	088	088	0.1449
144	1.67	34.040	*****							150	1.62	34.034	*****	27.24	083	083	0.1664
195	1.27	33.990	*****							200	1.26	33.993	*****	27.24	084	084	0.2084
241	1.22	34.020	*****							250	1.20	34.020	*****	27.26	081	081	0.2499
285	1.17	34.020	*****							300	1.10	34.023	*****	27.27	080	081	0.2906
382	0.76	34.040	*****							400	0.68	34.040	*****	27.31	077	076	0.3696
470	0.38	34.040	*****														
KOREA ,CHUN MA SAN , STATION 104-07 , 37-03.4. N, 130-00.0. E, FEB.11.1982, 17:20 KST, DEPTH 1050 , COLOR , TRANS. , WAVE SE 2, SWELL SE 1, WIND SE 2, BARO 1018.5, AIR TEMP. DRY 4.8, WET , CLOUD. TYPE ST, AMT 06, WEATHER BC,																	
0	10.23	34.480	*****							0	10.23	34.480	*****	26.52	151	151	0.0000
10	11.45	34.490	*****							10	11.45	34.490	*****	26.31	171	171	0.0161
20	10.98	34.410	*****							20	10.98	34.410	*****	26.33	169	169	0.0332
30	10.41	34.360	*****							30	10.41	34.360	*****	26.40	163	164	0.0499
50	9.76	34.380	*****							50	9.76	34.380	*****	26.52	151	152	0.0816
75	8.01	34.220	*****							75	8.01	34.220	*****	26.68	137	138	0.1179

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
98	4.35	34.080	*****							100	4.13	34.070	*****	27.05	101	102	0.1479
120	1.95	33.980	*****							125	1.86	33.983	*****	27.18	088	089	0.1719
140	1.61	*****	*****							150	1.57	33.998	*****	27.22	085	085	0.1937
186	1.43	34.020	*****							200	1.38	34.025	*****	27.25	082	082	0.2359
237	1.27	34.040	*****							250	1.25	34.037	*****	27.27	080	080	0.2767
285	1.21	34.030	*****							300	1.15	34.033	*****	27.28	080	080	0.3171
380	0.87	34.050	*****							400	0.79	34.045	*****	27.31	077	077	0.3960
475	0.53	34.030	*****														

KOREA ,CHUN MA SAN , STATION 104-08 , 37-03.4. N, 130-18.7. E, FEB.11.1982, 20:20 KST, DEPTH 720 , COLOR , TRANS.

WAVE	2, SWELL	1, WIND SE	1, BARO 1018.5, AIR TEMP. DRY	4.6, WET	, CLOUD. TYPE			, AMT 04, WEATHER BC.			
0	11.37	34.420	*****	0	11.37	34.420	*****	26.27	175	175	0.0000
10	11.50	34.410	*****	10	11.50	34.410	*****	26.24	178	178	0.0176
20	11.06	34.380	*****	20	11.06	34.380	*****	26.30	173	173	0.0352
30	11.01	34.380	*****	30	11.01	34.380	*****	26.31	172	172	0.0526
50	10.81	34.390	*****	50	10.81	34.390	*****	26.35	168	169	0.0867
75	10.78	34.400	*****	75	10.78	34.400	*****	26.36	166	168	0.1289
98	10.35	34.390	*****	100	10.33	34.390	*****	26.43	160	162	0.1702
122	10.15	34.400	*****	125	10.14	34.396	*****	26.47	156	158	0.2103
146	10.09	34.370	*****	150	9.64	34.340	*****	26.51	152	155	0.2497
194	4.79	34.020	*****	200	4.47	34.020	*****	26.97	108	110	0.3162
241	2.35	34.020	*****	250	2.20	34.023	*****	27.19	088	089	0.3661
287	1.60	34.040	*****	300	1.47	34.038	*****	27.26	082	082	0.4090
380	0.67	34.030	*****	400	0.66	34.032	*****	27.31	077	077	0.4889
464	0.63	34.040	*****								

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY

KOREA ,CHUN MA SAN , STATION 104-09 , 37-03.4. N, 130-37.6. E, FEB.11.1982, 23:10 KST, DEPTH 2340 , COLOR , TRANS.

WAVE 2, SWELL 1, WIND SE 2, BARO 1018.5, AIR TEMP. DRY 4.5, WET , CLOUD. TYPE ST, AMT 03, WEATHER BC,

0	11.76	34.430	*****							0	11.76	34.430	*****	26.21	181	181	0.0000
10	11.85	34.450	*****							10	11.85	34.450	*****	26.20	181	181	0.0181
20	11.78	34.450	*****							20	11.78	34.450	*****	26.22	180	180	0.0363
30	11.71	34.440	*****							30	11.71	34.440	*****	26.22	180	180	0.0543
50	11.68	34.430	*****							50	11.68	34.430	*****	26.22	180	181	0.0905
75	11.22	34.390	*****							75	11.22	34.390	*****	26.28	175	176	0.1353
99	10.87	34.390	*****							100	10.86	34.390	*****	26.34	169	171	0.1787
123	10.85	34.400	*****							125	10.83	34.398	*****	26.35	168	170	0.2214
148	10.65	34.380	*****							150	10.43	34.367	*****	26.40	163	166	0.2636
194	5.80	34.090	*****							200	5.40	34.080	*****	26.92	114	116	0.3344
244	2.52	34.010	*****							250	2.42	34.010	*****	27.16	091	092	0.3865
293	1.76	34.010	*****							300	1.71	34.010	*****	27.22	085	086	0.4311
388	1.16	34.020	*****							400	1.12	34.020	*****	27.27	081	081	0.5151
475	0.92	34.020	*****														

KOREA ,CHUN MA SAN , STATION 104-10 , 37-03.4. N, 130-56.4. E, FEB.12.1982, 02:00 KST, DEPTH 1800 , COLOR , TRANS.

WAVE 2, SWELL 1, WIND SE 2, BARO 1018.5, AIR TEMP. DRY 4.5, WET , CLOUD. TYPE ST, AMT 03, WEATHER BC,

0	11.00	34.380	*****							0	11.00	34.380	*****	26.31	172	171	0.0000
10	11.20	34.390	*****							10	11.20	34.390	*****	26.28	174	174	0.0173
20	11.36	34.390	*****							20	11.36	34.390	*****	26.25	177	177	0.0349
30	11.33	34.400	*****							30	11.33	34.400	*****	26.26	176	176	0.0527
50	11.32	34.390	*****							50	11.32	34.390	*****	26.26	177	177	0.0881
75	11.30	34.380	*****							75	11.30	34.380	*****	26.25	177	178	0.1327

OBSERVED										INTERPOLATED					CALCULATED		
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
99	11.28	34.410	*****							100	11.26	34.409	*****	26.28	174	176	0.1771
124	11.02	34.400	*****							125	10.98	34.396	*****	26.32	170	173	0.2209
147	10.17	34.310	*****							150	9.96	34.300	*****	26.43	160	163	0.2630
195	6.89	34.160	*****							200	6.74	34.147	*****	26.80	125	128	0.3360
244	5.51	34.040	*****							250	5.24	34.041	*****	26.90	115	118	0.3975
292	3.36	34.050	*****							300	3.31	34.048	*****	27.11	095	097	0.4514
392	2.78	34.030	*****							400	2.69	34.029	*****	27.16	091	093	0.5470
490	1.70	34.020	*****														
KOREA , CHUN MA SAN , STATION 104-11 , 37-03.4. N, 131-15.3. E, FEB.12.1982, 04:20 KST, DEPTH 2325 , COLOR , TRANS. ,																	
WAVE 1, SWELL 1, WIND NW 1, BARO 1018.5, AIR TEMP. DRY 5.0, WET , CLOUD.. TYPE ST, AMT 06, WEATHER BC,																	
0	11.42	34.420	*****							0	11.42	34.420	*****	26.26	176	176	0.0000
10	11.50	34.440	*****							10	11.50	34.440	*****	26.26	176	176	0.0176
20	11.60	34.420	*****							20	11.60	34.420	*****	26.23	179	179	0.0354
30	11.62	34.430	*****							30	11.62	34.430	*****	26.23	179	179	0.0534
50	11.57	34.430	*****							50	11.57	34.430	*****	26.24	178	179	0.0893
75	11.56	34.450	*****							75	11.56	34.450	*****	26.26	176	178	0.1340
99	11.55	34.410	*****							100	11.51	34.409	*****	26.24	179	181	0.1789
123	10.76	34.390	*****							125	10.43	34.373	*****	26.40	163	165	0.2222
146	7.04	34.200	*****							150	6.76	34.185	*****	26.83	123	124	0.2585
195	3.70	34.020	*****							200	3.53	34.020	*****	27.07	099	101	0.3150
244	2.11	34.020	*****							250	2.02	34.023	*****	27.21	087	087	0.3622
294	1.41	34.050	*****							300	1.39	34.047	*****	27.27	080	081	0.4044
393	1.10	34.010	*****							400	1.07	34.012	*****	27.26	081	081	0.4859
489	0.81	34.040	*****														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

4月(April)

KOREA ,CHUN MA SAN , STATION 104-04 , 37-03.4. N, 129-28.8. E, APR.19.1982, 16:40 KST, DEPTH 110 , COLOR 5, TRANS. 8.5,

WAVE NE 1, SWELL NE 1, WIND NE 1, BARO 1009. , AIR TEMP. DRY 19.5, WET , CLOUD. TYPE CI, AMT 01, WEATHER B ,

0	13.78	34.474	*****							0	13.78	34.474	*****	25.84	216	216	0.0000
10	12.75	34.490	*****							10	12.75	34.490	*****	26.06	195	195	0.0205
20	11.25	34.435	*****							20	11.25	34.435	*****	26.30	172	172	0.0389
30	10.50	34.390	*****							30	10.50	34.390	*****	26.40	163	163	0.0557
50	5.34	34.204	*****							50	5.34	34.204	*****	27.02	104	104	0.0826
75	2.13	34.074	*****							75	2.13	34.074	*****	27.24	084	084	0.1062
99	1.51	34.079	*****														

KOREA ,CHUN MA SAN , STATION 104-05 , 37-03.4. N, 129-33.6. E, APR.19.1982, 15:30 KST, DEPTH 220 , COLOR 5, TRANS. 8.0,

WAVE NW 1, SWELL NW 1, WIND NW 1, BARO 1010. , AIR TEMP. DRY 21.6, WET , CLOUD. TYPE CI, AMT 01, WEATHER B ,

0	13.55	34.435	*****							0	13.55	34.435	*****	25.86	214	214	0.0000
10	12.86	34.442	*****							10	12.86	34.442	*****	26.00	201	201	0.0207
20	12.69	34.441	*****							20	12.69	34.441	*****	26.04	198	198	0.0407
30	12.16	34.437	*****							30	12.16	34.437	*****	26.14	188	188	0.0601
49	9.81	34.365	*****							50	9.73	34.362	*****	26.51	152	153	0.0943
71	8.10	34.306	*****							75	7.45	34.277	*****	26.80	125	126	0.1292
94	4.38	34.141	*****							100	4.06	34.135	*****	27.11	096	096	0.1571
117	3.16	34.119	*****							125	2.88	34.102	*****	27.20	087	088	0.1802
141	2.32	34.070	*****							150	2.07	34.069	*****	27.24	083	084	0.2018
188	1.02	34.067	*****														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA ,CHUN MA SAN , STATION 104-06 , 37-03.4. N, 129-47.6. E, APR.19.1982, 13:10 KST, DEPTH 600 , COLOR 4, TRANS. 9.0, WAVE SW 1, SWELL SW 1, WIND SW 2, BARO 1012.5, AIR TEMP. DRY 16.1, WET , CLOUD. TYPE CI, AMT 01, WEATHER B ,																	
0	15.08	34.559	*****							0	15.08	34.559	*****	25.63	236	236	0.0000
10	14.13	34.599	*****							10	14.13	34.599	*****	25.86	214	214	0.0225
20	14.10	34.603	*****							20	14.10	34.603	*****	25.87	213	213	0.0439
30	14.03	34.569	*****							30	14.03	34.569	*****	25.86	214	215	0.0653
50	13.84	34.575	*****							50	13.84	34.575	*****	25.91	210	211	0.1080
75	13.49	34.551	*****							75	13.49	34.551	*****	25.96	205	206	0.1603
99	12.77	34.511	*****							100	12.66	34.505	*****	26.09	192	194	0.2105
115	11.05	34.422	*****							125	10.33	34.400	*****	26.44	159	161	0.2551
138	9.40	34.373	*****							150	9.08	34.376	*****	26.63	141	143	0.2933
182	8.24	34.387	*****							200	8.13	34.352	*****	26.76	129	132	0.3624
228	7.96	34.300	*****							250	7.82	34.188	*****	26.68	137	140	0.4307
273	7.69	34.071	*****							300	5.70	34.068	*****	26.87	118	122	0.4964
367	0.78	34.062	*****							400	0.69	34.064	*****	27.33	075	075	0.5951
470	0.53	34.070	*****														

KOREA ,CHUN MA SAN , STATION 104-07 , 37-03.4. N, 130-00.0. E, APR.19.1982, 10:50 KST, DEPTH 1050 , COLOR 4, TRANS. 8.0, WAVE SW 1, SWELL SW 1, WIND SW 1, BARO 1012. , AIR TEMP. DRY 14.0, WET , CLOUD. TYPE CI, AMT 01, WEATHER B ,																	
0	12.12	34.518	*****							0	12.12	34.518	*****	26.21	181	181	0.0000
10	12.07	34.518	*****							10	12.07	34.518	*****	26.22	180	180	0.0181
20	12.03	34.507	*****							20	12.03	34.507	*****	26.21	181	181	0.0362
30	11.40	34.542	*****							30	11.40	34.542	*****	26.36	167	167	0.0536
50	11.21	34.476	*****							50	11.21	34.476	*****	26.34	168	169	0.0873
75	11.11	34.465	*****							75	11.11	34.465	*****	26.35	167	169	0.1297

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
99	10.88	34.456	*****							100	10.87	34.456	*****	26.39	164	166	0.1716
124	10.85	34.460	*****							125	10.83	34.460	*****	26.40	163	165	0.2132
147	10.53	34.477	*****							150	10.48	34.471	*****	26.47	156	159	0.2539
175	9.87	34.396	*****							200	9.56	34.379	*****	26.56	148	152	0.3319
243	6.95	34.234	*****							250	6.38	34.211	*****	26.90	116	119	0.3999
290	3.18	34.081	*****							300	2.96	34.077	*****	27.17	090	091	0.4528
387	1.06	34.050	*****							400	0.99	34.050	*****	27.30	078	078	0.5378
482	0.56	34.056	*****														

KOREA ; CHUN MA SAN ; STATION 104-08 , 37-03.4. N, 130-18.7. E, APR.19.1982, 08:00 KST, DEPTH 720 , COLOR 4, TRANS. 8.0,

WAVE W 2, SWELL W 1, WIND W 2, BARO 1012. , AIR TEMP. DRY 11.0, WET , CLOUD. TYPE ST, AMT 01, WEATHER R ,

0	11.38	34.444	*****							0	11.38	34.444	*****	26.29	174	173	0.0000
10	11.31	34.455	*****							10	11.31	34.455	*****	26.31	172	171	0.0172
20	11.24	34.454	*****							20	11.24	34.454	*****	26.32	170	171	0.0344
30	11.16	34.453	*****							30	11.16	34.453	*****	26.34	169	169	0.0514
50	10.87	34.447	*****							50	10.87	34.447	*****	26.38	165	165	0.0850
75	10.86	34.478	*****							75	10.86	34.438	*****	26.38	165	166	0.1266
99	10.81	34.441	*****							100	10.80	34.440	*****	26.39	164	166	0.1683
113	10.80	34.431	*****							125	10.69	34.434	*****	26.40	163	165	0.2098
135	10.61	34.438	*****							150	10.51	34.437	*****	26.44	159	162	0.2508
180	10.32	34.437	*****							200	10.31	34.352	*****	26.41	162	166	0.3331
224	10.30	34.252	*****							250	9.47	34.167	*****	26.41	162	167	0.4166
269	8.87	34.106	*****							300	7.60	34.093	*****	26.64	141	145	0.4949
365	4.96	34.066	*****							400	3.40	34.062	*****	27.12	095	097	0.6167
454	1.01	34.058	*****														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA , CHUN MA SAN , STATION 104-09 , 37-03.4. N, 130-37.6. E, APR.19.1982, 05:10 KST, DEPTH 2340 , COLOR , TRANS.																	
WAVE SW 1, SWELL SW 1, WIND SW 2, BARO 1011. , AIR TEMP. DRY 11.9, WET , CLOUD. TYPE , AMT , WEATHER ,																	
0	12.03	34.448	*****							0	12.03	34.448	*****	26.17	185	185	0.0000
10	11.31	34.466	*****							10	11.31	34.466	*****	26.32	171	171	0.0178
20	11.25	34.451	*****							20	11.25	34.451	*****	26.32	171	171	0.0349
30	11.13	34.458	*****							30	11.13	34.458	*****	26.34	168	169	0.0519
50	10.99	34.455	*****							50	10.99	34.455	*****	26.37	166	167	0.0856
74	10.74	34.436	*****							75	10.73	34.435	*****	26.40	163	165	0.1271
98	10.73	34.435	*****							100	10.72	34.436	*****	26.40	163	165	0.1684
114	10.71	34.446	*****							125	10.58	34.443	*****	26.43	160	162	0.2094
135	10.47	34.442	*****							150	10.44	34.440	*****	26.45	158	161	0.2499
180	10.38	34.437	*****							200	9.75	34.372	*****	26.52	152	155	0.3292
222	9.06	34.302	*****							250	8.10	34.184	*****	26.63	141	145	0.4045
263	7.66	34.130	*****							300	6.54	34.102	*****	26.79	126	130	0.4733
360	4.73	34.058	*****							400	3.03	34.055	*****	27.15	092	094	0.5859
452	0.83	34.053	*****														

KOREA , CHUN MA SAN , STATION 104-10 , 37-03.4. N, 130-56.4. E, APR.19.1982, 02:20 KST, DEPTH 1800 , COLOR , TRANS.																	
WAVE SW 2, SWELL SW 1, WIND SW 2, BARO 1011. , AIR TEMP. DRY 11.9, WET , CLOUD. TYPE , AMT , WEATHER ,																	
0	11.67	34.481	*****							0	11.67	34.481	*****	26.26	176	176	0.0
10	11.56	34.485	*****							10	11.56	34.485	*****	26.29	174	174	0.0
20	11.53	34.486	*****							20	11.53	34.486	*****	26.29	173	173	0.0
30	11.37	34.488	*****							30	11.37	34.488	*****	26.32	170	171	0.0
50	11.24	34.475	*****							50	11.24	34.475	*****	26.34	169	170	0.0
74	11.15	34.473	*****														

OBSERVED										INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY	

98	10.92	34.443	*****							100	10.91	34.443	*****	26.37	165	167	0.1708
114	10.84	34.447	*****							125	10.80	34.447	*****	26.39	164	166	0.2126
132	10.77	34.447	*****							150	10.58	34.435	*****	26.43	161	164	0.2539
176	10.28	34.418	*****							200	10.13	34.378	*****	26.46	157	161	0.3353
224	9.98	34.338	*****							250	9.74	34.199	*****	26.39	164	169	0.4181
269	9.57	34.098	*****							300	8.61	34.093	*****	26.49	155	160	0.5006
360	6.76	34.086	*****							400	4.50	34.069	*****	27.01	105	109	0.6354
448	1.80	34.049	*****														

KOREA , CHUN MA SAN , STATION 104-11 , 37-03.4. N, 131-15.3. E, APR.18.1982, 23:20 KST, DEPTH 2325 , COLOR , TRANS.

WAVE SW 1, SWELL SW 1, WIND SW 2, BARO 1011. , AIR TEMP. DRY 12.1, WET , CLOUD. TYPE , AMT , WEATHER ,

0	12.26	34.526	*****							0	12.26	34.526	*****	26.19	183	183	0.0000
10	12.10	34.551	*****							10	12.10	34.551	*****	26.24	179	178	0.0181
20	12.06	34.551	*****							20	12.06	34.551	*****	26.24	178	178	0.0359
30	12.05	34.542	*****							30	12.05	34.542	*****	26.24	178	179	0.0538
50	12.01	34.528	*****							50	12.01	34.528	*****	26.23	179	180	0.0898
75	11.39	34.504	*****							75	11.39	34.504	*****	26.33	169	171	0.1337
99	11.04	34.494	*****							100	11.02	34.492	*****	26.39	164	166	0.1759
123	10.79	34.457	*****							125	10.72	34.452	*****	26.41	162	164	0.2172
142	10.20	34.417	*****							150	9.64	34.389	*****	26.55	149	151	0.2568
186	7.17	34.268	*****							200	7.00	34.206	*****	26.81	124	127	0.3266
234	6.59	34.058	*****							250	4.68	34.057	*****	26.98	108	110	0.3861
276	1.60	34.056	*****							300	1.49	34.056	*****	27.27	080	081	0.4340
371	1.18	34.058	*****							400	1.17	34.057	*****	27.29	078	079	0.5142
469	1.15	34.056	*****														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

6 月 (June)

KOREA , CHUN MA SAN , STATION 104-04 , 37-03.4. N, 129-28.8. E, JUN. 9.1982, 11:20 KST, DEPTH 110 , COLOR 3, TRANS. 17.0.
 WAVE SE 2, SWELL SE 1, WIND SE 2, BARO 1015. , AIR TEMP. DRY 22.0, WET , CLOUD. TYPE CI, AMT 01, WEATHER B ,

0	18.89	34.233	*****							0	18.89	34.233	*****	24.48	346	345	0.0000
10	16.15	34.777	*****							10	16.15	34.777	*****	25.25	272	272	0.0309
20	14.48	34.362	*****							20	14.48	34.362	*****	25.61	238	239	0.0565
30	11.74	34.387	*****							30	11.74	34.387	*****	26.18	184	185	0.0777
50	5.54	34.250	*****							50	5.54	34.250	*****	27.03	103	103	0.1065
75	2.46	34.124	*****							75	2.46	34.124	*****	27.25	082	082	0.1299
99	1.94	34.132	*****														

KOREA , CHUN MA SAN , STATION 104-05 , 37-03.4. N, 129-33.6. E, JUN. 9.1982, 10:00 KST, DEPTH 220 , COLOR 3, TRANS. 18.0.
 WAVE SE 1, SWELL SE 1, WIND SE 1, BARO 1015. , AIR TEMP. DRY 22.5, WET , CLOUD. TYPE CI, AMT 01, WEATHER B ,

0	19.40	34.293	*****							0	19.40	34.293	*****	24.39	354	353	0.0000
10	17.82	34.279	*****							10	17.82	34.279	*****	24.78	317	317	0.0335
20	14.75	34.255	*****							20	14.75	34.255	*****	25.47	252	252	0.0620
30	13.89	34.253	*****							30	13.89	34.253	*****	25.65	234	235	0.0864
50	12.33	34.254	*****							50	12.33	34.254	*****	25.96	205	206	0.1306
75	5.11	34.250	*****							75	5.11	34.250	*****	27.09	098	098	0.1687
98	4.71	34.252	*****							100	4.68	34.245	*****	27.13	094	094	0.1929
123	4.35	34.166	*****							125	4.17	34.164	*****	27.12	095	095	0.2168
147	2.23	34.144	*****							150	2.17	34.143	*****	27.29	079	079	0.2387
195	1.28	34.131	*****														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY

KOREA ,CHUN MA SAN , STATION 104-06 , 37-03.4. N, 129-47.6. E, JUN. 9.1982, 07:35 KST, DEPTH 600 , COLOR 3, TRANS. 19.5,
 WAVE NNW 3, SWELL N 1, WIND NNW 3, BARO 1010. , AIR TEMP. DRY 21.0, WET , CLOUD. TYPE ST, AMT 01, WEATHER B ,

0	19.21	34.397	*****							0	19.21	34.397	*****	24.52	342	341	0.0000
10	19.09	34.425	*****							10	19.09	34.425	*****	24.57	337	337	0.0339
20	18.94	34.417	*****							20	18.94	34.417	*****	24.61	334	334	0.0675
30	17.13	34.438	*****							30	17.13	34.438	*****	25.07	290	290	0.0987
50	14.45	34.446	*****							50	14.45	34.446	*****	25.68	232	233	0.1511
75	13.90	34.482	*****							75	13.90	34.482	*****	25.82	218	220	0.2077
99	10.41	34.378	*****							100	10.18	34.371	*****	26.44	159	161	0.2554
130	3.52	34.175	*****							125	4.63	34.207	*****	27.11	096	097	0.2877
158	3.31	34.107	*****							150	3.37	34.126	*****	27.17	090	091	0.3113
204	2.76	34.110	*****							200	2.80	34.109	*****	27.21	086	087	0.3559
252	1.14	34.110	*****							250	1.20	34.110	*****	27.33	074	075	0.3966
299	0.74	34.111	*****							300	0.73	34.110	*****	27.36	071	071	0.4333
375	0.46	34.110	*****							400	0.45	34.110	*****	27.38	070	070	0.5043
490	0.32	34.111	*****														

KOREA ,CHUN MA SAN , STATION 104-07 , 37-03.4. N, 130-00.0. E, JUN. 9.1982, 05:10 KST, DEPTH 1050 , COLOR , TRANS. ,
 WAVE NNW 2, SWELL NNW 1, WIND NNW 3, BARO 1010. , AIR TEMP. DRY 19.7, WET , CLOUD. TYPE CI, AMT 02, WEATHER B ,

0	18.97	34.486	*****							0	18.97	34.486	*****	24.65	329	329	0.0000
10	18.60	34.493	*****							10	18.60	34.493	*****	24.75	320	320	0.0324
20	16.51	34.520	*****							20	16.51	34.520	*****	25.28	270	270	0.0620
30	16.04	34.557	*****							30	16.04	34.557	*****	25.41	257	257	0.0884
50	15.60	34.581	*****							50	15.60	34.581	*****	25.53	246	247	0.1389
75	14.60	34.566	*****							75	14.60	34.566	*****	25.74	226	228	0.1983

OBSERVED										INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY	
101	13.10	34.542	*****							100	13.15	34.542	*****	26.02	199	201	0.2521	
127	8.47	34.385	*****							125	8.82	34.397	*****	26.69	135	138	0.2945	
148	6.92	34.304	*****							150	6.88	34.298	*****	26.90	116	118	0.3265	
221	5.49	34.107	*****							200	5.90	34.163	*****	26.92	113	116	0.3851	
257	1.65	34.100	*****							250	2.39	34.101	*****	27.24	083	084	0.4354	
301	1.07	34.106	*****							300	1.08	34.105	*****	27.34	074	074	0.4753	
395	0.54	34.111	*****							400	0.53	34.110	*****	27.38	070	070	0.5479	
487	0.53	34.106	*****															

KOREA ,CHUN MA SAN , STATION 104-08 , 37-03.4. N, 130-18.7. E, JUN. 9.1982, 02:15 KST, DEPTH 720 , COLOR , TRANS.

WAVE HE 1, SWELL NE 1, WIND NE 1, BARO 1009. , AIR TEMP. DRY 19.0, WET , CLOUD. TYPE CI, ANT 01, WEATHER B ,

0	18.48	34.547	*****							0	18.48	34.547	*****	24.82	313	313	0.0000
10	17.91	34.555	*****							10	17.91	34.555	*****	24.97	299	299	0.0306
20	16.32	34.571	*****							20	16.32	34.571	*****	25.36	262	262	0.0587
30	15.56	34.530	*****							30	15.56	34.530	*****	25.50	248	249	0.0843
50	14.44	34.556	*****							50	14.44	34.556	*****	25.76	223	224	0.1318
75	13.07	34.543	*****							75	13.07	34.543	*****	26.04	197	199	0.1848
99	11.51	34.498	*****							100	11.49	34.496	*****	26.31	172	174	0.2315
124	11.13	34.449	*****							125	11.10	34.444	*****	26.34	169	171	0.2747
144	10.69	34.355	*****							150	10.26	34.328	*****	26.40	163	166	0.3170
193	7.21	34.137	*****							200	6.51	34.132	*****	26.82	123	126	0.3903
240	2.57	34.110	*****							250	2.31	34.108	*****	27.25	082	083	0.4428
287	1.37	34.102	*****							300	1.27	34.102	*****	27.32	075	076	0.4827
385	0.66	34.102	*****							400	0.62	34.101	*****	27.36	072	071	0.5568
481	0.43	34.100	*****														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY

KOREA ,CHUN MA SAN , STATION 104-09 , 37-03.4. N, 130-37.6. E, JUN. 8.1982, 23:25 KST, DEPTH 2340 , COLOR , TRANS.

WAVE NE 1, SWELL NE 1, WIND NE 1, BARO 1006. , AIR TEMP. DRY 19.0, WET , CLOUD. TYPE C1, AMT 02, WEATHER B ,

0	18.52	34.518	*****							0	18.52	34.518	*****	24.79	316	316	0.0000
10	17.81	34.515	*****							10	17.81	34.515	*****	24.96	300	300	0.0308
20	17.02	34.523	*****							20	17.02	34.523	*****	25.16	281	281	0.0597
30	16.27	34.541	*****							30	16.27	34.541	*****	25.35	263	264	0.0872
50	14.61	34.569	*****							50	14.61	34.569	*****	25.74	226	227	0.1363
75	13.78	34.573	*****							75	13.78	34.573	*****	25.92	209	210	0.1911
99	12.73	34.562	*****							100	12.68	34.559	*****	26.13	189	191	0.2414
130	11.19	34.495	*****							125	11.43	34.505	*****	26.33	170	173	0.2869
155	10.88	34.478	*****							150	10.94	34.481	*****	26.40	163	166	0.3294
203	8.68	34.276	*****							200	8.81	34.288	*****	26.61	143	147	0.4080
251	3.52	34.110	*****							250	3.62	34.113	*****	27.14	093	095	0.4686
298	1.71	34.094	*****							300	1.69	34.094	*****	27.29	079	079	0.5124
395	1.04	34.104	*****							400	1.02	34.103	*****	27.34	074	074	0.5896
489	0.73	34.100	*****														

KOREA ,CHUN MA SAN , STATION 104-10 , 37-03.4. N, 130-56.4. E, JUN. 8.1982, 20:30 KST, DEPTH 1800 , COLOR , TRANS.

WAVE NE 1, SWELL NE 1, WIND NE 1, BARO 1006. , AIR TEMP. DRY 19.0, WET , CLOUD. TYPE C1, AMT 03, WEATHER BC,

0	18.70	34.535	*****							0	18.70	34.535	*****	24.76	319	319	0.0000
10	17.96	34.533	*****							10	17.96	34.533	*****	24.94	302	302	0.0310
20	16.40	34.550	*****							20	16.40	34.550	*****	25.32	265	265	0.0595
30	14.88	34.562	*****							30	14.88	34.562	*****	25.67	232	232	0.0844
50	13.33	34.586	*****							50	13.33	34.586	*****	26.02	199	200	0.1277
75	11.7*	34.585	*****							75	11.73	34.585	*****	26.33	169	171	0.1742

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
99	11.29	34.543	*****							100	11.27	34.541	*****	26.38	165	167	0.2165
130	10.94	34.510	*****							125	10.99	34.515	*****	26.41	162	164	0.2580
157	10.57	34.499	*****							150	10.66	34.501	*****	26.46	157	160	0.2987
205	8.69	34.401	*****							200	8.88	34.411	*****	26.69	135	139	0.3736
252	5.02	34.202	*****							250	5.17	34.210	*****	27.05	102	104	0.4346
300	2.02	34.104	*****							300	2.02	34.104	*****	27.27	080	081	0.4812
398	1.00	34.113	*****							400	0.98	34.112	*****	27.35	073	073	0.5589
494	0.48	34.077	*****														
KOREA ;CHUN MA SAN , STATION 104-11 , 37-03.4. N, 131-15.3. E, JUN. 8.1982, 17:50 KST, DEPTH 2325 , COLOR 2, TRANS. 26.0, WAVE NE 1, SWELL NE 1, WIND NE 1, BARO 1006. , AIR TEMP. DRY 19.5, WET , CLOUD. TYPE ST, AMT 03, WEATHER BC,																	
0	18.86	34.577	*****							0	18.86	34.577	*****	24.75	320	320	0.0000
10	18.42	34.576	*****							10	18.42	34.576	*****	24.86	310	310	0.0315
20	18.24	34.573	*****							20	18.24	34.573	*****	24.90	306	306	0.0623
30	15.92	34.577	*****							30	15.92	34.577	*****	25.45	253	253	0.0903
50	13.03	34.546	*****							50	13.03	34.546	*****	26.05	196	197	0.1354
75	11.74	34.552	*****							75	11.74	34.552	*****	26.30	172	173	0.1819
98	10.99	34.516	*****							100	10.98	34.516	*****	26.42	161	163	0.2241
129	10.89	34.517	*****							125	10.90	34.516	*****	26.43	160	162	0.2650
158	10.85	34.548	*****							150	10.86	34.539	*****	26.46	158	161	0.3055
205	9.72	34.461	*****							200	9.84	34.470	*****	26.58	146	150	0.3833
253	6.50	34.281	*****							250	6.70	34.292	*****	26.92	114	117	0.4502
302	2.42	34.130	*****							300	2.58	34.136	*****	27.25	082	084	0.5007
401	1.16	34.087	*****							400	1.17	34.087	*****	27.32	076	076	0.5811
498	0.80	34.090	*****														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY

8月(August)

KOREA .CHUN MA SAN , STATION 104-04 , 37-03.4. N, 129-28.8. E. AUG. 5.1982, 16:20 KST, DEPTH 110 , COLOR 3, TRANS. 22.0.
 WAVE SE 1, SWELL SE 1, WIND SE 1, BARO 997. , AIR TEMP. DRY 24.1, WET , CLOUD. TYPE AS, AMT 03, WEATHER BC,
 0 24.88 33.136 ***** 0 24.88 33.136 ***** 21.99 584 583 0.0000
 10 22.98 33.530 ***** 10 22.98 33.530 ***** 22.84 502 502 0.0542
 20 19.54 33.646 ***** 20 19.54 33.646 ***** 23.87 404 404 0.0996
 30 17.00 33.871 ***** 30 17.00 33.871 ***** 24.66 328 329 0.1363
 50 15.78 34.002 ***** 50 15.78 34.002 ***** 25.04 292 293 0.1986
 75 14.06 34.217 ***** 75 14.06 34.217 ***** 25.58 240 242 0.2656
 99 10.15 34.247 *****

KOREA .CHUN MA SAN , STATION 104-05 , 37-03.4. N, 129-33.6. E. AUG. 5.1982, 17:22 KST, DEPTH 220 , COLOR 3, TRANS. 24.0,
 WAVE SE 1, SWELL SE 1, WIND SE 1, BARO 997. , AIR TEMP. DRY 26.2, WET , CLOUD. TYPE AS, AMT 03, WEATHER BC,
 0 24.75 33.046 ***** 0 24.75 33.046 ***** 22.08 575 575 0.0000
 10 23.10 34.063 ***** 10 23.10 34.063 ***** 23.21 467 467 0.0521
 20 22.81 34.136 ***** 20 22.81 34.136 ***** 23.35 453 454 0.0981
 30 14.93 34.170 ***** 30 14.93 34.170 ***** 25.36 262 262 0.1340
 50 13.87 34.218 ***** 50 13.87 34.218 ***** 25.62 237 238 0.1840
 75 11.48 34.302 ***** 75 11.48 34.302 ***** 26.16 186 187 0.2373
 100 7.87 34.202 ***** 100 7.87 34.202 ***** 26.68 136 138 0.2780
 124 5.79 34.107 ***** 124 5.68 34.105 ***** 26.90 115 117 0.3099
 147 3.43 34.075 ***** 150 3.39 34.073 ***** 27.13 094 095 0.3364
 176 2.84 34.050 *****

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY

KOREA ,CHUN MA SAN , STATION 104-06 , 37-03.4. N, 129-47.6. E, AUG. 5.1982, 19130 KST, DEPTH 600 , COLOR , TRANS.

WAVE SE 1, SWELL SE 1, WIND SE 1, BAREO 998. , AIR TEMP. DRY 25.5, WET , CLOUD. TYPE AS, AMT 02, WEATHER B ,

0	24.51	33.945	*****							0	24.51	33.945	*****	22.71	515	514	0.0000
10	23.49	34.166	*****							10	23.49	34.166	*****	23.18	470	470	0.0492
20	18.53	34.267	*****							20	18.53	34.267	*****	24.59	335	335	0.0895
30	17.90	34.351	*****							30	17.90	34.351	*****	24.81	314	314	0.1220
50	16.51	34.290	*****							50	16.51	34.290	*****	25.10	287	288	0.1823
75	15.30	34.360	*****							75	15.30	34.360	*****	25.43	255	257	0.2506
99	13.80	34.426	*****							100	13.67	34.426	*****	25.82	218	220	0.3103
126	10.53	34.428	*****							125	10.65	34.427	*****	26.41	162	165	0.3585
150	5.99	34.271	*****							150	5.99	34.271	*****	26.99	107	108	0.3927
198	3.40	34.260	*****							200	3.35	34.259	*****	27.28	080	081	0.4403
247	2.41	34.240	*****							250	2.36	34.237	*****	27.35	073	074	0.4792
296	1.73	34.200	*****							300	1.69	34.193	*****	27.37	071	072	0.5159
394	0.99	34.049	*****							400	0.96	34.049	*****	27.30	077	078	0.5912
491	0.56	34.065	*****														

KOREA ,CHUN MA SAN , STATION 104-07 , 37-03.4. N, 130-00.0. E, AUG. 5.1982, 21130 KST, DEPTH 1050 , COLOR , TRANS.

WAVE SE 1, SWELL SE 1, WIND SE 1, BAREO 998. , AIR TEMP. DRY 25.0, WET , CLOUD. TYPE CI, AMT 01, WEATHER B ,

0	24.52	33.828	*****							0	24.52	33.828	*****	22.62	523	523	0.0000
10	23.03	34.129	*****							10	23.03	34.129	*****	23.28	460	460	0.0491
20	19.39	34.231	*****							20	19.39	34.231	*****	24.36	357	357	0.0900
30	18.23	34.244	*****							30	18.23	34.244	*****	24.65	329	330	0.1244
50	17.94	34.226	*****							50	17.94	34.226	*****	24.71	324	325	0.1900
75	17.87	34.208	*****							75	17.87	34.208	*****	24.71	323	325	0.2714

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
100	15.73	34.350	*****							100	15.73	34.350	*****	25.32	265	268	0.3457
125	11.10	34.353	*****							125	11.59	34.352	*****	26.18	184	187	0.4026
153	6.96	34.241	*****							150	7.45	34.254	*****	26.78	127	129	0.4421
202	3.55	34.070	*****							200	3.68	34.076	*****	27.10	096	098	0.4990
250	2.91	34.072	*****							250	2.91	34.072	*****	27.17	090	091	0.5464
299	1.93	34.066	*****							300	1.92	34.066	*****	27.25	083	083	0.5903
397	1.33	34.074	*****							400	1.31	34.073	*****	27.30	078	078	0.6717
494	0.99	34.048	*****														

KOREA .CHUN MA SAN , STATION 104-08 , 37-03.4. N, 130-18.7. E, AUG. 6.1982, 00:20 KST, DEPTH 720 , COLOR , TRANS. ,

WAVE SE 1, SWELL SE 1, WIND SE 1, BARD 998.5, AIR TEMP. DRY 25.0, WET , CLOUD. TYPE CI, AMT O1, WEATHER B ,																	
0	24.21	33.827	*****							0	24.21	33.827	*****	22.71	515	514	0.0000
10	23.99	34.068	*****							10	23.99	34.068	*****	22.96	491	491	0.0503
20	20.89	34.108	*****							20	20.89	34.108	*****	23.86	405	405	0.0951
30	17.71	34.164	*****							30	17.71	34.164	*****	24.72	323	323	0.1316
50	15.76	34.367	*****							50	15.76	34.367	*****	25.33	265	266	0.1906
75	15.54	34.469	*****							75	15.54	34.469	*****	25.46	253	254	0.2557
98	13.56	34.487	*****							100	13.41	34.485	*****	25.92	208	210	0.3139
127	11.48	34.472	*****							125	11.62	34.473	*****	26.27	176	178	0.3627
150	11.10	34.329	*****							150	11.10	34.329	*****	26.25	177	180	0.4076
198	6.19	34.209	*****							200	6.06	34.204	*****	26.93	112	115	0.4816
246	3.20	34.095	*****							250	3.08	34.091	*****	27.17	090	091	0.5333
294	1.76	34.056	*****							300	1.70	34.057	*****	27.26	082	082	0.5769
392	0.80	34.081	*****							400	0.78	34.080	*****	27.34	074	074	0.6556
489	0.64	34.070	*****														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA , CHUN MA SAN , STATION 104-09 , 37-03.4. N, 130-37.6. E, AUG. 6.1982, 03:10 KST, DEPTH 2340 , COLOR , TRANS.

WAVE SE 2, SWELL SE 2, WIND SE 2, BARO 998.5, AIR TEMP. DRY 24.5, WET , CLOUD. TYPE NS, AMT 01, WEATHER B ,

0	24.37	34.020	*****							0	24.37	34.020	*****	22.81	505	505	0.0000
10	23.60	34.234	*****							10	23.60	34.234	*****	23.20	468	468	0.0486
20	19.59	34.225	*****							20	19.59	34.225	*****	24.29	363	364	0.0903
30	16.84	34.213	*****							30	16.84	34.213	*****	24.96	300	300	0.1235
50	15.81	34.364	*****							50	15.81	34.364	*****	25.32	266	267	0.1803
75	14.61	34.405	*****							75	14.61	34.405	*****	25.61	238	240	0.2438
99	14.29	34.475	*****							100	14.21	34.475	*****	25.75	225	227	0.3022
136	11.40	34.501	*****							125	12.25	34.493	*****	26.16	186	188	0.3543
160	10.95	34.441	*****							150	11.13	34.466	*****	26.35	168	171	0.3993
208	7.67	34.441	*****							200	8.21	34.441	*****	26.82	123	127	0.4739
255	3.87	34.251	*****							250	4.27	34.271	*****	27.20	088	090	0.5282
301	1.84	34.077	*****							300	1.88	34.080	*****	27.26	081	082	0.5713
396	1.11	34.083	*****							400	1.09	34.082	*****	27.32	076	076	0.6508
491	0.64	34.080	*****														

KOREA , CHUN MA SAN , STATION 104-10 , 37-03.4. N, 130-56.4. E, AUG. 6.1982, 05:55 KST, DEPTH 1800 , COLOR , TRANS.

WAVE SW 2, SWELL SW 2, WIND SW 2, BARO 999.5, AIR TEMP. DRY 24.6, WET , CLOUD. TYPE CI, AMT 01, WEATHER B ,

0	24.16	33.641	*****							0	24.16	33.641	*****	22.58	527	526	0.0000
10	24.10	33.992	*****							10	24.10	33.992	*****	22.87	500	500	0.0513
20	23.91	34.148	*****							20	23.91	34.148	*****	23.04	483	483	0.1005
30	17.87	34.150	*****							30	17.87	34.150	*****	24.67	328	328	0.1411
50	17.65	34.162	*****							50	17.65	34.162	*****	24.73	322	323	0.2063
75	16.61	34.246	*****							75	16.61	34.246	*****	25.04	292	294	0.2835

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
98	15.29	34.314	*****							100	15.07	34.313	*****	25.44	254	256	0.3524
134	11.35	34.311	*****							125	12.33	34.311	*****	26.00	200	203	0.4100
159	9.10	34.335	*****							150	9.91	34.326	*****	26.46	158	160	0.4556
207	4.15	34.103	*****							200	4.87	34.136	*****	27.02	104	106	0.5223
254	2.26	34.077	*****							250	2.42	34.079	*****	27.22	085	086	0.5706
301	1.40	34.033	*****							300	1.41	34.033	*****	27.26	082	082	0.6129
397	0.77	34.051	*****							400	0.76	34.050	*****	27.31	076	076	0.6924
492	0.52	34.040	*****														

KOREA , CHUN MA SAN , STATION 104-11 , 37-03.4. N, 131-15.3. E, AUG. 6.1982, 09:00 KST, DEPTH 2325 , COLOR 3, TRANS. 26.0,

WAVE S 1, SWELL S 1, WIND S 2, BARO 1000. , AIR TEMP. DRY 24.6, WET , CLOUD. TYPE CI, AMT O1, WEATHER B ,

0	23.74	33.477	*****							0	23.74	33.477	*****	22.58	527	526	0.0000
10	23.65	33.551	*****							10	23.65	33.551	*****	22.67	519	519	0.0523
20	23.61	33.620	*****							20	23.61	33.620	*****	22.73	513	513	0.1039
30	21.76	34.095	*****							30	21.76	34.095	*****	23.61	428	429	0.1510
50	19.28	34.241	*****							50	19.28	34.241	*****	24.38	355	356	0.2296
75	18.11	34.203	*****							75	18.11	34.203	*****	24.65	329	331	0.3156
99	15.91	34.326	*****							100	15.82	34.327	*****	25.28	269	271	0.3911
131	13.19	34.370	*****							125	13.70	34.361	*****	25.77	223	226	0.4534
155	10.22	34.356	*****							150	10.83	34.358	*****	26.32	171	174	0.5034
203	5.86	34.127	*****							200	6.13	34.141	*****	26.87	118	120	0.5771
251	3.62	34.100	*****							250	3.66	34.100	*****	27.12	094	096	0.6314
297	2.67	34.043	*****							300	2.62	34.043	*****	27.17	090	091	0.6785
393	1.38	34.048	*****							400	1.33	34.047	*****	27.27	080	080	0.7647
489	0.76	34.046	*****														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

10月(October)

KOREA ,CHUN MA SAN , STATION 104-04 , 37-03.4. N, 129-28.8. E, OCT.12.1982. 20:40 KST, DEPTH 110 , COLOR , TRANS.

WAVE S 1, SWELL S 1, WIND S 1, BARD 1017. , AIR TEMP. DRY 20.5. WET , CLOUD. TYPE CI, AMT 04, WEATHER BC,

0	21.26	32.909	5.67	5.67	5.67	5.67	5.67	5.67	5.67	0	21.26	32.909	5.67	5.67	5.67	5.67	5.67
10	21.16	32.822	5.37	5.37	5.37	5.37	5.37	5.37	5.37	10	21.16	32.822	5.37	5.37	5.37	5.37	5.37
20	20.55	32.853	5.08	5.08	5.08	5.08	5.08	5.08	5.08	20	20.55	32.853	5.08	5.08	5.08	5.08	5.08
30	10.98	33.027	5.10	5.10	5.10	5.10	5.10	5.10	5.10	30	10.98	33.027	5.10	5.10	5.10	5.10	5.10
50	9.03	33.051	5.08	5.08	5.08	5.08	5.08	5.08	5.08	50	9.03	33.051	5.08	5.08	5.08	5.08	5.08
75	8.03	33.261	5.67	5.67	5.67	5.67	5.67	5.67	5.67	75	8.03	33.261	5.67	5.67	5.67	5.67	5.67
98	6.25	34.154	5.67	5.67	5.67	5.67	5.67	5.67	5.67	98	6.25	34.154	5.67	5.67	5.67	5.67	5.67

KOREA ,CHUN MA SAN , STATION 104-05 , 37-03.4. N, 129-33.6. E, OCT.12.1982, 19:50 KST, DEPTH 220 , COLOR , TRANS.

WAVE S 1, SWELL S 1, WIND S 1, BARD 1017. , AIR TEMP. DRY 20.8. WET , CLOUD. TYPE CI, AMT 03, WEATHER BC,

0	21.46	32.941	5.37	5.37	5.37	5.37	5.37	5.37	5.37	0	21.46	32.941	5.37	5.37	5.37	5.37	5.37
10	21.41	32.872	5.35	5.35	5.35	5.35	5.35	5.35	5.35	10	21.41	32.872	5.35	5.35	5.35	5.35	5.35
20	21.20	32.845	5.18	5.18	5.18	5.18	5.18	5.18	5.18	20	21.20	32.845	5.18	5.18	5.18	5.18	5.18
30	20.74	32.851	4.91	4.91	4.91	4.91	4.91	4.91	4.91	30	20.74	32.851	4.91	4.91	4.91	4.91	4.91
50	11.79	34.116	5.18	5.18	5.18	5.18	5.18	5.18	5.18	50	11.79	34.116	5.18	5.18	5.18	5.18	5.18
75	4.57	34.147	5.77	5.77	5.77	5.77	5.77	5.77	5.77	75	4.57	34.147	5.77	5.77	5.77	5.77	5.77
108	4.37	34.093	5.57	5.57	5.57	5.57	5.57	5.57	5.57	100	4.41	34.106	5.62	5.62	5.62	5.62	5.62
130	2.49	34.070	5.57	5.57	5.57	5.57	5.57	5.57	5.57	125	2.91	34.075	5.61	5.61	5.61	5.61	5.61
156	1.83	34.083	5.57	5.57	5.57	5.57	5.57	5.57	5.57	150	1.98	34.080	5.57	5.57	5.57	5.57	5.57
201	1.47	34.079	5.59	5.59	5.59	5.59	5.59	5.59	5.59	200	1.47	34.098	5.68	5.68	5.68	5.68	5.68

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA ,CHUN MA SAN , STATION 104-06 , 37-03.4. N, 129-47.6. E, OCT.12.1982, 17:20 KST, DEPTH 600 , COLOR , TRANS.

WAVE W 1, SWELL W 1, WIND W 1, BARO 1015.5, AIR TEMP. DRY 21.5, WET , CLOUD. TYPE CI, AMT O3, WEATHER BC,

0	21.96	33.027	****							0	21.96	33.027	****	22.75	511	510	0.0000
10	21.54	32.998	5.18							10	21.54	32.998	5.18	22.84	502	502	0.0506
20	21.49	33.011	5.28							20	21.49	33.011	5.28	22.87	500	500	0.1007
30	21.09	33.265	4.98							30	21.09	33.265	4.98	23.17	471	471	0.1494
50	14.73	33.951	5.20							50	14.73	33.951	5.20	25.24	273	275	0.2240
75	14.43	34.371	4.91							75	14.43	34.371	4.91	25.62	237	238	0.2883
98	11.94	34.369	5.37							100	11.85	34.372	5.36	26.14	187	189	0.3419
136	10.38	34.434	5.28							125	10.83	34.415	5.30	26.37	166	169	0.3867
157	4.89	34.166	5.28							150	6.72	34.255	5.28	26.89	117	119	0.4228
204	3.63	34.084	5.77							200	3.73	34.090	5.72	27.11	096	097	0.4770
251	2.31	34.068	5.91							250	2.33	34.068	5.90	27.22	086	086	0.5231
296	1.37	34.072	5.77							300	1.36	34.072	5.75	27.29	078	079	0.5646
388	1.20	34.080	5.53							400	1.14	34.079	5.59	27.31	076	077	0.6427
474	0.77	34.076	5.96														

KOREA ,CHUN MA SAN , STATION 104-07 , 37-03.4. N, 130-00.0. E, OCT.12.1982, 15:00 KST, DEPTH 1050 , COLOR , TRANS.

WAVE W 1, SWELL W 1, WIND W 1, BARO 1015. , AIR TEMP. DRY 22.5, WET , CLOUD. TYPE CI, AMT O3, WEATHER BC,

0	21.44	33.155	4.98							0	21.44	33.155	4.98	22.99	488	487	0.0000
10	20.70	33.129	4.89							10	20.70	33.129	4.89	23.17	471	471	0.0479
20	20.67	33.127	5.47							20	20.67	33.127	5.47	23.18	470	470	0.0950
30	20.62	33.141	5.25							30	20.62	33.141	5.25	23.20	468	468	0.1420
50	16.05	34.116	5.16							50	16.05	34.116	5.16	25.07	289	290	0.2180
75	14.67	34.254	4.30							75	14.67	34.254	4.30	25.48	250	252	0.2858

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
101	14.03	34.386	4.89							100	14.05	34.380	4.86	25.71	228	231	0.3463
128	8.75	34.262	4.59							125	9.33	34.275	4.62	26.51	152	154	0.3945
162	4.41	34.164	5.06							150	5.94	34.198	4.89	26.94	111	113	0.4281
210	3.80	34.140	5.96							200	3.92	34.145	5.77	27.13	094	095	0.4803
257	1.65	34.120	5.67							250	1.97	34.122	5.71	27.29	079	079	0.5242
305	1.08	34.116	5.84							300	1.13	34.116	5.82	27.34	073	074	0.5626
393	0.91	34.062	5.96							400	0.88	34.062	5.96	27.32	076	076	0.6380
482	0.57	34.064	5.96														

KOREA ,CHUN MA SAN , STATION 104-08 , 37-03.4. N, 130-18.7. E, OCT.12.1982, 12:45 KST, DEPTH 720 , COLOR , TRANS. ,

WAVE W 1, SWELL W 1, WIND W 1, BARD 1015. , AIR TEMP. DRY 23.5, WET , CLOUD. TYPE CI, AMT O3, WEATHER BC.

0	21.49	33.161	4.86							0	21.49	33.161	4.86	22.98	489	488	0.0000
10	21.05	33.098	4.98							10	21.05	33.098	4.98	23.05	482	482	0.0485
20	20.89	33.088	5.64							20	20.89	33.088	5.64	23.09	478	479	0.0966
30	20.15	33.392	4.98							30	20.15	33.392	4.98	23.51	438	438	0.1425
50	15.93	34.173	4.40							50	15.93	34.173	4.40	25.14	282	284	0.2148
75	14.84	34.263	4.30							75	14.84	34.263	4.30	25.45	253	255	0.2822
101	14.27	34.413	4.40							100	14.29	34.407	4.39	25.68	231	234	0.3433
128	11.89	34.410	4.66							125	12.15	34.410	4.63	26.12	190	193	0.3967
152	9.34	34.379	5.47							150	9.55	34.381	5.40	26.56	148	151	0.4397
200	8.77	34.360	5.40							200	8.77	34.360	5.40	26.67	137	141	0.5128
248	4.68	34.390	5.89							250	4.56	34.386	5.87	27.26	082	084	0.5693
295	1.88	34.307	5.47							300	1.82	34.295	5.48	27.44	064	065	0.6069
391	0.74	34.080	5.68							400	0.70	34.079	5.67	27.34	074	074	0.6768
487	0.36	34.076	5.67														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA ,CHUN MA SAN , STATION 104-09 , 37-03.4. N, 130-37.6. E, OCT.12.1982, 10:05 KST, DEPTH 2340 , COLOR 3, TRANS. 23.0,
 WAVE W 1, SWELL W 1, WIND W 1, BARO 1014.5, AIR TEMP. DRY 25.0, MET , CLOUD. TYPE CI, AMT 03, WEATHER BC,
 0 21.49 33.059 ***** 0 21.49 33.059 ***** 22.90 496 496 0.0000
 10 21.33 33.044 4.98 10 21.33 33.044 4.98 22.93 493 493 0.0494
 20 21.21 33.064 5.47 20 21.21 33.064 5.47 22.98 488 489 0.0986
 30 20.96 33.119 4.86 30 20.96 33.119 4.86 23.09 478 479 0.1470
 50 16.95 34.163 4.40 50 16.95 34.163 4.40 24.90 306 307 0.2256
 75 15.23 34.288 4.59 75 15.23 34.288 4.59 25.39 259 261 0.2967
 99 14.37 34.420 4.50 100 14.24 34.421 4.51 25.70 229 232 0.3584
 126 10.99 34.451 4.98 125 11.11 34.449 4.96 26.34 169 171 0.4089
 150 9.14 34.371 5.37 150 9.14 34.371 5.37 26.62 142 145 0.4485
 198 7.45 34.269 5.48 200 7.31 34.267 5.50 26.81 124 126 0.5165
 246 4.17 34.240 5.98 250 3.99 34.239 5.95 27.20 087 089 0.5707
 291 2.21 34.234 5.67 300 2.05 34.220 5.66 27.36 072 073 0.6114
 386 0.61 34.087 5.57 400 0.59 34.093 5.62 27.36 072 072 0.6842
 481 0.51 34.132 5.96

KOREA ,CHUN MA SAN , STATION 104-10 , 37-03.4. N, 130-56.4. E, OCT.12.1982, 07:25 KST, DEPTH 1800 , COLOR , TRANS. ,
 WAVE SW 2, SWELL SW 1, WIND SW 2, BARO 1014.5, AIR TEMP. DRY 21.6, MET , CLOUD. TYPE CI, AMT 03, WEATHER BC,
 0 21.59 33.010 4.89 0 21.59 33.010 4.89 22.84 502 502 0.0000
 10 21.53 32.974 5.16 10 21.53 32.974 5.16 22.83 503 503 0.0503
 20 21.50 32.971 4.89 20 21.50 32.971 4.89 22.83 503 503 0.1006
 30 21.05 32.990 4.98 30 21.05 32.990 4.98 22.97 490 490 0.1503
 50 20.22 33.174 4.98 50 20.22 33.174 4.98 23.33 455 456 0.2451
 75 14.92 34.035 5.10 75 14.92 34.035 5.10 25.26 271 273 0.3364

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
101	14.34	34.308	4.96							100	14.36	34.297	4.96	25.58	241	243	0.4010
127	8.96	34.314	5.27							125	9.37	34.313	5.24	26.54	150	152	0.4506
151	6.19	34.190	5.46							150	6.21	34.195	5.45	26.71	115	117	0.4847
201	3.19	34.078	5.64							200	3.24	34.080	5.63	27.15	092	093	0.5370
249	1.64	34.059	6.14							250	1.63	34.059	6.13	27.26	081	081	0.5810
298	1.16	34.074	5.77							300	1.14	34.073	5.77	27.31	077	077	0.6208
386	0.49	34.066	5.97							400	0.45	34.068	5.92	27.35	073	073	0.6962
478	0.28	34.080	5.67														

KOREA , CHUN MA SAN , STATION 104-11 , 37-03.4. N, 131-15.3. E, OCT.12.1982, 05:00 KST, DEPTH 2325 , COLOR , TRANS.
 WAVE SW 3, SWELL SW 2, WIND SW 4, BARO 1014.5, AIR TEMP. DRY 19.0, WET , CLOUD. TYPE ST, AMT 04, WEATHER BC,

0	21.36	33.013	4.98							0	21.36	33.013	4.98	22.90	496	496	0.0000
10	21.33	32.968	4.98							10	21.33	32.968	4.98	22.88	498	498	0.0497
20	21.13	33.155	4.98							20	21.13	33.155	4.98	23.07	480	480	0.0987
30	20.98	33.246	4.98							30	20.98	33.246	4.98	23.18	469	470	0.1462
50	20.70	33.219	5.08							50	20.70	33.219	5.08	23.24	464	465	0.2399
75	16.19	33.240	5.67							75	16.19	33.240	5.67	24.37	356	358	0.3429
102	15.48	34.117	5.00							100	15.53	34.052	5.04	25.14	283	285	0.4234
126	5.13	34.140	5.85							125	5.56	34.139	5.81	26.94	111	113	0.4733
151	3.27	34.108	5.66							150	3.30	34.109	5.66	27.16	091	091	0.4989
200	2.07	34.066	6.06							200	2.07	34.066	6.06	27.24	084	084	0.5430
249	1.31	34.062	5.86							250	1.30	34.062	5.86	27.29	079	079	0.5840
297	0.97	34.066	5.96							300	0.95	34.065	5.95	27.31	076	076	0.6230
395	0.60	34.064	5.85							400	0.58	34.063	5.83	27.34	074	074	0.6987
492	0.38	34.061	5.57														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

12月(December)

KOREA ,CHUMI MA SAN , STATION 104-04 , 37-03.4. N, 129-28.8. E, DEC. 8.1982, 06:50 KST, DEPTH 110 , COLOR , TRANS.

WAVE W 1, SWELL W 1, WIND W 1, BARO 1025. , AIR TEMP. DRY 4.9, WET , CLOUD. TYPE ST, AMT 07, WEATHER BC,

0	13.17	33.914	6.18							0	13.17	33.914	6.18	25.53	245	245	0.0000
10	13.16	33.913	6.08							10	13.16	33.915	6.08	25.54	245	245	0.0245
20	13.15	33.986	6.08							20	13.15	33.986	6.08	25.59	240	240	0.0488
30	13.12	33.866	6.08							30	13.12	33.866	6.08	25.51	248	248	0.0733
50	12.88	33.847	6.09							50	12.88	33.847	6.09	25.54	245	246	0.1227
75	9.05	34.049	5.98							75	9.05	34.049	5.98	26.38	165	166	0.1743
99	5.58	34.127	5.98														

KOREA ,CHUMI MA SAN , STATION 104-05 . 37-03.4. N, 129-33.6. E, DEC. 8.1982, 07:45 KST, DEPTH 220 , COLOR 4, TRANS. 11.0,

WAVE W 1, SWELL W 1, WIND W 1, BARO 1025. , AIR TEMP. DRY 5.4, WET , CLOUD. TYPE ST, AMT 07, WEATHER BC,

0	14.04	*****	6.18							0	14.04	*****	6.18	*****	***	***	*****
10	14.03	33.880	5.88							10	14.03	33.880	5.88	25.33	265	265	*****
20	14.01	33.876	5.88							20	14.01	33.876	5.88	25.33	264	265	*****
30	14.00	33.876	5.98							30	14.00	33.876	5.98	25.33	264	265	*****
50	12.44	33.890	6.08							50	12.44	33.890	6.08	25.66	233	234	*****
75	8.88	34.125	5.88							75	8.88	34.125	5.88	26.47	156	158	*****
99	4.38	34.115	5.98							100	4.31	34.112	5.96	27.07	100	100	*****
124	2.67	34.054	5.68							125	2.62	34.052	5.68	27.18	089	089	*****
148	1.63	34.028	*****							150	1.61	34.028	5.52	27.24	083	083	*****
176	1.26	34.033	6.38														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA ,CHUN MA SAN , STATION 104-06 , 37-03.4. N, 129-47.6. E, DEC. 8.1982, 09:55 KST, DEPTH 600 , COLOR 4, TRANS. 14.0,
 WAVE NW 3, SWELL NW 1, WIND NW 3, BARD 1025. , AIR TEMP. DRY 6.6, WET , CLOUD. TYPE ST, AMT 05, WEATHER EC,

0	14.87	34.018	5.49							0	14.87	34.018	5.49	25.26	271	271	0.0000
10	14.78	33.976	5.78							10	14.78	33.976	5.78	25.25	273	273	0.0272
20	14.13	33.913	5.68							20	14.13	33.913	5.68	25.34	264	264	0.0541
30	13.63	33.863	5.98							30	13.63	33.863	5.98	25.40	258	258	0.0803
50	12.74	33.744	5.88							50	12.74	33.744	5.88	25.49	250	251	0.1313
75	12.50	33.798	5.68							75	12.50	33.798	5.68	25.58	241	243	0.1931
99	10.56	34.079	5.49							100	10.33	34.077	5.50	26.19	183	185	0.2466
129	3.91	34.025	5.98							125	4.79	34.032	5.91	26.95	111	112	0.2838
148	1.50	34.025	6.18							150	1.48	34.025	6.17	27.25	083	083	0.3083
203	1.17	34.043	5.99							200	1.18	34.042	6.00	27.28	079	079	0.3491
251	1.09	34.138	5.99							250	1.09	34.136	5.99	27.36	072	072	0.3871
299	0.77	34.029	5.68							300	0.76	34.028	5.68	27.30	078	078	0.4248
396	0.49	34.024	5.78							400	0.48	34.023	5.78	27.31	077	076	0.5024
491	0.47	34.019	5.98														

KOREA ,CHUN MA SAN , STATION 104-07 , 37-03.4. N, 130-00.0. E, DEC. 8.1982, 11:50 KST, DEPTH 1050 , COLOR 4, TRANS. 15.0,
 WAVE NW 3, SWELL NW 1, WIND NW 3, BARD 1025. , AIR TEMP. DRY 8.0, WET , CLOUD. TYPE CI, AMT 04, WEATHER EC,

0	16.17	34.015	5.29							0	16.17	34.015	5.29	24.97	299	299	0.0000
10	16.16	34.000	5.49							10	16.16	34.000	5.49	24.96	300	300	0.0299
20	16.14	33.996	5.39							20	16.14	33.996	5.39	24.96	300	300	0.0600
30	16.12	34.006	5.49							30	16.12	34.006	5.49	24.97	299	299	0.0900
50	15.67	34.066	5.89							50	15.67	34.066	5.89	25.12	285	286	0.1487
75	15.55	34.044	5.69							75	15.55	34.044	5.69	25.13	284	286	0.2202

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY

98	15.26	34.200	5.29							100	14.64	34.195	5.31	25.44	254	256	0.2880
130	5.35	34.128	5.68							125	6.89	34.139	5.61	26.77	128	129	0.3363
154	3.99	34.074	5.88							150	4.21	34.083	5.84	27.05	101	102	0.3654
203	2.78	34.016	5.68							200	2.85	34.019	5.69	27.13	093	094	0.4147
251	1.94	34.060	5.99							250	1.95	34.059	5.98	27.24	083	084	0.4595
299	1.27	34.069	6.08							300	1.26	34.068	6.08	27.30	078	078	0.5003
395	0.62	34.024	6.08							400	0.60	34.024	****	27.30	077	077	0.5785
490	0.36	34.029	****														

KOREA - CHUN MA SAN , STATION 104-08 , 37-03.4. N, 130-18.7. E, DEC. 8.1982, 14:00 KST, DEPTH 720 , COLOR 4, TRANS. 15.0,

WAVE NW 3, SWELL NW 1, WIND NW 3, FARG 1025. , AIR TEMP. DRY 7.8, WET , CLOUD. TYPE CI, AMT 05, WEATHER BC,

0	17.04	34.025	5.49							0	17.04	34.025	5.49	24.77	318	317	0.0000
10	17.05	34.005	5.29							10	17.05	34.005	5.29	24.75	319	319	0.0318
20	17.04	34.027	5.39							20	17.04	34.027	5.39	24.77	318	318	0.0638
30	17.03	33.999	5.49							30	17.03	33.999	5.49	24.75	319	320	0.0957
50	17.02	33.997	5.59							50	17.02	33.997	5.59	24.76	319	320	0.1598
75	16.79	33.988	5.49							75	16.79	33.988	5.49	24.80	315	317	0.2396
99	16.65	34.044	5.49							100	16.27	34.043	5.49	24.96	299	302	0.3171
129	5.51	34.040	5.68							125	6.99	34.040	5.65	26.68	136	136	0.3722
153	2.78	34.060	5.68							150	3.12	34.057	5.68	27.14	093	093	0.4012
201	2.44	34.036	5.98							200	2.44	34.036	5.97	27.18	089	089	0.4472
250	1.87	34.040	5.69							250	1.87	34.040	5.69	27.23	084	085	0.4910
298	1.09	34.040	5.69							300	1.08	34.039	5.69	27.29	079	079	0.5322
395	0.89	34.037	5.78							400	0.88	34.036	5.77	27.30	078	078	0.6113
492	0.70	34.021	5.68														

OBSERVED										INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY	

KOREA .CHUN MA SAN . STATION 104-09 : 37-03.4. N, 130-37.6. E, DEC. 8.1982. 16:15 KST, DEPTH 2340 , COLOR . TRANS.

WAVE NW 3, SWELL NW 1, WIND NW 3, BARO 1025. , AIR TEMP. DRY 7.6, WET , CLOUD. TYPE CI, AMT 05, WEATHER BC,

0	16.18	33.722	5.59							0	16.18	33.722	5.59	24.74	321	321	0.0000
10	16.18	33.715	5.68							10	16.18	33.715	5.68	24.73	321	321	0.0321
20	16.13	33.720	5.59							20	16.13	33.720	5.59	24.75	320	320	0.0642
30	16.12	33.716	5.49							30	16.12	33.716	5.49	24.75	320	320	0.0963
50	16.09	33.716	5.39							50	16.09	33.716	5.39	24.76	319	320	0.1605
75	16.06	33.726	5.29							75	16.06	33.726	5.29	24.77	318	320	0.2406
99	13.56	33.706	5.29							100	13.41	33.717	5.30	25.33	265	267	0.3140
129	9.32	34.050	5.59							125	9.88	34.004	5.55	26.21	181	183	0.3704
154	3.86	34.095	5.68							150	4.73	34.087	5.66	27.00	106	107	0.4069
202	2.84	34.050	5.78							200	2.88	34.051	5.77	27.16	091	092	0.4559
251	2.56	34.030	6.09							250	2.56	34.030	6.08	27.17	090	091	0.5030
299	2.34	34.030	5.69							300	2.32	34.030	5.68	27.19	088	089	0.5484
396	0.67	34.048	*****							400	0.65	34.047	5.57	27.32	076	076	0.6314
492	0.42	34.041	5.49														

KOREA .CHUN MA SAN . STATION 104-10 : 37-03.4. N, 130-36.4. E, DEC. 8.1982. 18:50 KST, DEPTH 1800 , COLOR . TRANS.

WAVE NW 3, SWELL NW 1, WIND NW 3, BARO 1025. , AIR TEMP. DRY 6.5, WET , CLOUD. TYPE ST, AMT 06, WEATHER BC,

0	17.22	34.035	5.78							0	17.22	34.035	5.78	24.74	321	321	0.0000
10	17.23	34.025	5.49							10	17.23	34.025	5.49	24.73	322	322	0.0321
20	17.22	34.029	5.79							20	17.22	34.029	5.79	24.73	322	322	0.0644
30	17.21	34.047	5.59							30	17.21	34.047	5.59	24.75	320	321	0.0965
50	17.20	34.017	5.29							50	17.20	34.017	5.29	24.73	322	323	0.1610
75	16.86	34.024	5.29							75	16.86	34.024	5.29	24.74	321	321	0.0000

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
100	16.52	34.042	5.49							100	16.52	34.042	5.49	24.91	305	307	0.3190
130	11.19	34.140	5.59							125	12.07	34.123	5.57	25.91	210	212	0.3841
154	5.74	34.165	5.68							150	6.64	34.160	5.66	26.82	123	125	0.4263
202	4.58	34.100	5.99							200	4.62	34.102	5.97	27.02	104	106	0.4841
250	2.23	34.100	6.19							250	2.23	34.100	6.19	27.25	082	083	0.5316
297	1.36	34.111	5.98							300	1.35	34.108	5.98	27.32	075	076	0.5715
394	1.06	34.045	5.98							400	1.02	34.043	5.96	27.29	078	079	0.6492
489	0.49	34.024	5.68														
KOREA ,CHUN MA SAN , STATION 104-11 , 37-03.4. N, 131-15.3. E, DEC. 8.1982. 21:30 KST, DEPTH 2325 , COLOR , TRANS. ,																	
WAVE NW 2, SWELL NW 1, WIND NW 2, BARO 1024. , AIR TEMP. DRY 6.1, WET , CLOUD. TYPE ST, AMT 06, WEATHER BC,																	
0	16.25	33.671	5.78							0	16.25	33.671	5.78	24.68	326	326	0.0000
10	16.29	33.658	5.49							10	16.29	33.658	5.49	24.67	328	328	0.0327
20	16.28	33.665	5.49							20	16.28	33.665	5.49	24.67	327	327	0.0655
30	16.27	33.663	5.49							30	16.27	33.663	5.49	24.67	327	328	0.0983
50	16.26	33.662	5.59							50	16.26	33.662	5.59	24.68	327	328	0.1640
75	16.24	33.660	5.39							75	16.24	33.660	5.39	24.68	327	328	0.2461
100	15.48	34.165	5.39							100	15.48	34.165	5.39	25.24	273	276	0.3218
127	8.92	34.130	5.49							125	9.40	34.132	5.48	26.39	164	166	0.3772
151	5.64	34.116	5.98							150	5.77	34.116	5.95	26.90	116	117	0.4127
199	4.15	34.107	5.88							200	4.12	34.106	5.88	27.08	098	100	0.4672
247	3.14	34.066	6.09							250	3.06	34.064	6.07	27.15	092	093	0.5157
294	1.91	34.045	5.78							300	1.83	34.044	5.77	27.24	084	084	0.5603
391	0.69	34.039	5.68							400	0.66	34.038	5.68	27.31	077	076	0.6412
498	0.40	34.030	5.68														

103線 海洋觀測 成績
Oceanographic Data. Line 103

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

2月(February)

KOREA , JI RI SAN , STATION 103-04 , 36-30.3. N, 129-30.1. E, FEB. 3.1982, 13:40 KST, DEPTH 110 , COLOR 4, TRANS. 13.0,
WAVE SW 2, SWELL SW 1, WIND SW 4, BARO 1021.5, AIR TEMP. DRY 6.2, WET , CLOUD. TYPE NS, AMT 09, WEATHER C ,
0 10.41 34.442 ***** 0 10.41 34.442 ***** 26.46 157 157 0.0000
10 10.37 34.401 ***** 10 10.37 34.401 ***** 26.44 160 159 0.0158
20 10.33 34.408 ***** 20 10.33 34.408 ***** 26.45 158 159 0.0318
30 10.33 34.453 ***** 30 10.33 34.453 ***** 26.48 155 155 0.0475
50 10.01 34.381 ***** 50 10.01 34.381 ***** 26.48 155 156 0.0787
75 5.06 34.131 ***** 75 5.06 34.131 ***** 27.00 106 107 0.1117
103 3.80 34.061 ***** 100 3.93 34.068 ***** 27.07 099 100 0.1377

KOREA , JI RI SAN , STATION 103-05 , 36-30.3. N, 129-35.4. E, FEB. 3.1982, 14:30 KST, DEPTH 205 , COLOR 4, TRANS. 13.0,
WAVE SW 1, SWELL SW 1, WIND SW 4, BARO 1021. , AIR TEMP. DRY 6.2, WET , CLOUD. TYPE NS, AMT 09, WEATHER C ,
0 10.09 34.358 ***** 0 10.09 34.358 ***** 26.45 158 158 0.0000
10 10.09 34.366 ***** 10 10.09 34.366 ***** 26.46 158 157 0.0158
20 10.17 34.368 ***** 20 10.17 34.368 ***** 26.44 159 159 0.0316
30 10.15 34.387 ***** 30 10.15 34.387 ***** 26.46 157 157 0.0475
49 10.10 34.373 ***** 50 9.89 34.364 ***** 26.49 154 155 0.0788
74 4.88 34.154 ***** 75 4.73 34.149 ***** 27.05 101 102 0.1111
87 2.94 34.089 ***** 100 2.39 34.054 ***** 27.20 087 087 0.1349
106 2.15 34.038 ***** 125 1.90 34.038 ***** 27.23 085 085 0.1565
140 1.71 ***** 150 1.62 34.039 ***** 27.25 082 083 0.1775

OBSERVED										INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY	
KOREA ,J1 RI SAN , STATION 103-06 , 36-30.3. N, 129-47.3. E, FEB. 3.1982, 15:55 KST, DEPTH 235 , COLOR 3, TRANS. 12.0, WAVE W 1, SWELL W 2, WIND W 4, BARO 1021. , AIR TEMP. DRY 6.2, WET , CLOUD. TYPE NS, AMT 10, WEATHER C ,																		
0	10.18	34.401	*****							0	10.18	34.401	*****	26.47	156	156	0.0000	
10	10.26	34.412	*****							10	10.26	34.412	*****	26.46	157	157	0.0156	
20	10.13	34.409	*****							20	10.13	34.409	*****	26.48	155	155	0.0313	
30	9.98	34.413	*****							30	9.98	34.413	*****	26.51	152	153	0.0467	
50	6.53	34.178	*****							50	6.53	34.178	*****	26.85	120	121	0.0741	
75	3.24	34.061	*****							75	3.24	34.061	*****	27.13	094	094	0.1011	
86	2.20	34.021	*****							100	1.75	34.009	*****	27.21	086	086	0.1236	
102	1.69	34.008	*****							125	1.46	34.033	*****	27.25	082	082	0.1447	
117	1.51	34.030	*****							150	1.32	34.042	*****	27.27	080	080	0.1651	
168	1.23	34.050	*****							200	1.01	34.042	*****	27.29	078	078	0.2050	
204	0.99	34.041	*****															
KOREA ,J1 RI SAN , STATION 103-07 , 36-30.3. N, 130-00.0. E, FEB. 3.1982, 17:20 KST, DEPTH 850 , COLOR 3, TRANS. 10.0, WAVE W 1, SWELL W 2, WIND W 4, BARO 1021. , AIR TEMP. DRY 6.2, WET , CLOUD. TYPE NS, AMT 10, WEATHER C ,																		
0	10.37	34.413	*****							0	10.37	34.413	*****	26.44	159	158	0.0000	
10	10.26	34.420	*****							10	10.26	34.420	*****	26.47	156	156	0.0157	
20	9.70	34.393	*****							20	9.70	34.393	*****	26.54	149	149	0.0311	
30	9.60	34.399	*****							30	9.60	34.399	*****	26.57	147	148	0.0460	
50	6.44	34.189	*****							50	6.44	34.189	*****	26.87	118	119	0.0727	
75	3.50	34.081	*****							75	3.50	34.081	*****	27.12	094	095	0.0994	
87	1.78	34.029	*****							100	1.67	34.032	*****	27.24	083	083	0.1218	
120	1.51	34.037	*****							125	1.43	34.030	*****	27.25	082	082	0.1426	
139	1.24	34.011	*****							150	1.18	34.017	*****	27.26	081	081	0.1632	

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

175	1.04	34.031	*****							200	0.88	34.039	*****	27.30	078	078	0.2031
211	0.81	34.043	*****							250	0.80	34.036	*****	27.30	078	077	0.2422
249	0.81	34.036	*****							300	0.77	34.038	*****	27.30	077	077	0.2811
325	0.76	34.040	*****							400	0.68	34.046	*****	27.32	076	076	0.3581
410	0.67	34.047	*****														

KOREA , JI RI SAN , STATION 103-08 , 36-30.3. N, 130-18.6. E, FEB. 3.1982, 19:20 KST, DEPTH 198 , COLOR , TRANS.

WAVE W 1, SWELL W 1, WIND W 1, WIND W 4, BARO 1021. , AIR TEMP. DRY 6.5, MET , CLOUD. TYPE NS, AMT 10, WEATHER C ,

0	12.50	34.483	*****							0	12.50	34.483	*****	26.11	191	191	0.0000
10	13.03	34.497	*****							10	13.03	34.497	*****	26.01	200	200	0.0195
20	13.04	34.501	*****							20	13.04	34.501	*****	26.01	200	200	0.0396
30	13.05	34.487	*****							30	13.05	34.487	*****	26.00	201	201	0.0597
50	13.05	34.495	*****							50	13.05	34.495	*****	26.01	200	201	0.1000
75	11.72	34.415	*****							75	11.72	34.415	*****	26.20	182	183	0.1482
80	10.73	34.415	*****							100	10.23	34.405	*****	26.46	157	159	0.1911
102	10.19	34.405	*****							125	5.37	34.152	*****	26.98	108	109	0.2248
125	5.37	34.152	*****							150	3.06	34.060	*****	27.15	092	093	0.2502
169	1.31	33.991	*****														

KOREA , JI RI SAN , STATION 103-09 , 36-30.3. N, 130-37.3. E, FEB. 3.1982, 21:15 KST, DEPTH 2150 , COLOR , TRANS.

WAVE W 1, SWELL W 1, WIND W 1, WIND W 3, BARO 1021. , AIR TEMP. DRY 7.0, MET , CLOUD. TYPE NS, AMT 10, WEATHER R ,

0	13.02	34.455	*****							0	13.02	34.455	*****	25.98	203	202	0.0000
10	13.06	34.467	*****							10	13.06	34.467	*****	25.98	203	203	0.0202
20	13.10	34.475	*****							20	13.10	34.475	*****	25.98	203	203	0.0406
30	13.06	34.469	*****							30	13.06	34.469	*****	25.98	202	203	0.0607

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY
49	13.03	34.463	*****							50	13.03	34.462	*****	25.98	202	203	0.1016
74	13.04	34.462	*****							75	13.03	34.461	*****	25.98	203	204	0.1527
87	13.00	34.458	*****							100	13.00	34.463	*****	25.99	202	204	0.2038
109	13.00	34.467	*****							125	12.47	34.435	*****	26.07	194	197	0.2540
132	12.24	34.422	*****							150	8.42	34.261	*****	26.65	140	142	0.2965
179	2.28	34.002	*****							200	1.84	33.988	*****	27.19	088	088	0.3543
219	1.46	33.976	*****							250	1.31	33.991	*****	27.23	084	084	0.3977
262	1.26	33.997	*****							300	1.11	34.008	*****	27.26	082	082	0.4395
353	0.91	34.025	*****							400	0.68	34.029	*****	27.30	077	077	0.5194
442	0.49	34.033	*****														

KDREA ,JI RI SAN , STATION 103-10 , 36-30.3. N, 130-55.6. E, FEB. 3.1982, 23:15 KST, DEPTH 1800 , COLOR , TRANS. ,
 WAVE W 1, SWELL W 1, WIND W 3, BARG 1021. , AIR TEMP. DRY 6.5, WET , CLOUD. TYPE NS, AMT , WEATHER R ,
 0 12.81 34.448 ***** 26.02 199 199 0.0000
 10 12.82 34.474 ***** 26.04 198 197 0.0198
 20 12.75 34.473 ***** 26.05 196 197 0.0396
 30 12.82 34.467 ***** 26.03 198 199 0.0594
 49 12.64 34.459 ***** 26.06 195 196 0.0989
 74 12.29 34.437 ***** 26.11 190 192 0.1475
 96 11.85 ***** 26.19 183 185 0.1947
 116 11.20 34.385 ***** 26.32 170 173 0.2394
 138 10.30 34.331 ***** 26.54 149 152 0.2801
 180 6.19 34.116 ***** 27.00 106 108 0.3453
 222 2.84 34.015 ***** 27.19 088 088 0.3946
 264 1.74 34.017 ***** 27.25 082 083 0.4377

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

347 0.92 34.023 *****
 425 0.55 34.022 *****

KOREA ,JI RI SAN , STATION 103-11 , 36-30.3. N, 131-14.0. E, FEB. 4.1982, 01:10 KST, DEPTH 2100 , COLOR , TRANS. ,
 WAVE W 2, SWELL W 2, WIND SE 3, BARO 1020.5, AIR TEMP. DRY 4.0, WET , CLOUD. TYPE , AMT , WEATHER R ,
 0 11.66 34.286 ***** 26.11 190 190 0.0000
 10 11.91 34.365 ***** 26.13 189 189 0.0189
 20 11.89 34.372 ***** 26.14 188 188 0.0378
 30 11.89 34.348 ***** 26.12 190 190 0.0568
 50 11.86 34.353 ***** 26.13 189 190 0.0949
 75 11.82 34.349 ***** 26.13 188 190 0.1424
 90 11.81 34.349 ***** 26.14 188 190 0.1900
 111 11.76 34.348 ***** 26.19 183 186 0.2371
 133 11.11 34.279 ***** 26.57 147 149 0.2791
 172 5.19 34.057 ***** 27.07 099 100 0.3418
 208 2.95 33.996 ***** 27.19 088 089 0.3894
 254 1.87 33.994 ***** 27.25 083 083 0.4327
 324 1.03 34.017 ***** 27.29 078 078 0.5137
 401 0.53 34.007 *****

4月(April)

KOREA ,JI RI SAN , STATION 103-04 , 36-30.3. N, 129-30.1. E, APR. 6.1982, 11:25 KST, DEPTH 110 , COLOR 3, TRANS. 10.0,
 WAVE SW 1, SWELL SW 1, WIND SW 2, BARO 1022. , AIR TEMP. DRY 15.5, WET , CLOUD. TYPE CI, AMT O4, WEATHER BC,
 0 12.63 34.483 ***** 26.08 193 193 0.0000
 11 12.51 34.471 ***** 26.09 192 192 0.0193

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY

23	12.39	34.472	*****							20	12.42	34.471	*****	26.11	190	190	0.0384
36	12.04	34.496	*****							30	12.20	34.484	*****	26.16	185	186	0.0573
60	7.27	34.296	*****							50	9.25	34.379	*****	26.61	143	144	0.0904
90	2.26	34.107	*****							75	4.76	34.201	*****	27.09	098	098	0.1208
105	1.37	34.061	*****							100	1.66	34.076	*****	27.27	080	080	0.1432

KOREA , JI RI SAN , STATION 103-05 , 36-30.3. N, 129-35.4. E, APR. 6.1982, 12:25 KST, DEPTH 205 , COLOR 3, TRANS. 11.0,
 WAVE SE 1, SWELL SE 1, WIND SE 2, BARO 1022. , AIR TEMP. DRY 17.0, WET , CLOUD. TYPE CI, AMT 04, WEATHER BC,

0	13.12	34.505	*****							0	13.12	34.505	*****	26.00	201	201	0.0000
10	12.80	34.502	*****							10	12.80	34.502	*****	26.06	195	195	0.0198
20	12.34	34.475	*****							20	12.34	34.475	*****	26.13	189	189	0.0390
30	11.48	34.475	*****							30	11.48	34.475	*****	26.29	173	173	0.0572
49	11.29	34.440	*****							50	11.12	34.433	*****	26.33	170	171	0.0917
74	7.12	34.286	*****							75	6.93	34.278	*****	26.88	118	119	0.1280
96	3.04	34.127	*****							100	2.71	34.116	*****	27.22	085	085	0.1536
113	1.66	34.084	*****							125	1.51	34.073	*****	27.28	079	079	0.1742
133	1.41	34.067	*****							150	1.23	34.073	*****	27.30	077	077	0.1939
177	0.95	34.083	*****														

KOREA , JI RI SAN , STATION 103-06 , 36-30.3. N, 129-47.3. E, APR. 6.1982, 14:00 KST, DEPTH 235 , COLOR 3, TRANS. 13.0,
 WAVE SE 1, SWELL SE 1, WIND SE 2, BARO 1020. , AIR TEMP. DRY 15.5, WET , CLOUD. TYPE CI, AMT 04, WEATHER BC,

0	12.71	34.532	*****							0	12.71	34.532	*****	26.10	191	191	0.0000
10	12.67	34.538	*****							10	12.67	34.538	*****	26.11	190	190	0.0190
20	12.25	34.523	*****							20	12.25	34.523	*****	26.19	183	184	0.0378
30	11.77	34.530	*****							30	11.77	34.530	*****	26.28	174	175	0.0557

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
48	11.78	34.523	*****							50	11.76	34.523	*****	26.28	175	175	0.0908
72	11.57	34.523	*****							75	11.35	34.511	*****	26.35	168	170	0.1341
85	10.63	34.472	*****							100	9.17	34.383	*****	26.62	142	143	0.1733
111	8.11	34.318	*****							125	6.53	34.262	*****	26.92	114	115	0.2058
144	4.39	34.188	*****							150	4.02	34.176	*****	27.15	092	093	0.2320
187	1.80	34.106	*****							200	1.61	34.092	*****	27.29	078	079	0.2752
216	1.38	34.075	*****														
KOREA ,JI RI SAN , STATION 103-07 , 36-30.3. N, 130-00.0. E, APR. 6.1982, 15:35 KST, DEPTH 850 , COLOR 3, TRANS. 13.0.																	
WAVE SE 1, SWELL SE 1, WIND SE 2, BARO 1019. , AIR TEMP. DRY 15.0, WET , CLOUD. TYPE CU, AMT 07, WEATHER BC,																	
0	12.28	34.525	*****							0	12.28	34.525	*****	26.18	184	183	0.0000
10	12.23	34.565	*****							10	12.23	34.565	*****	26.22	180	180	0.0182
18	12.15	34.538	*****							20	12.10	34.539	*****	26.22	180	180	0.0362
25	12.00	34.542	*****							30	11.95	34.537	*****	26.25	177	177	0.0541
44	11.81	34.524	*****							50	11.76	34.520	*****	26.28	175	176	0.0895
59	11.69	34.516	*****							75	11.11	34.502	*****	26.38	165	166	0.1323
79	10.97	34.499	*****							100	9.23	34.401	*****	26.63	141	143	0.1711
95	9.73	34.409	*****							125	6.65	34.284	*****	26.92	114	115	0.2035
114	7.86	34.380	*****							150	4.06	34.103	*****	27.09	098	099	0.2304
145	4.45	34.111	*****							200	1.43	34.052	*****	27.27	080	080	0.2755
182	1.58	34.052	*****							250	1.01	34.052	*****	27.30	078	078	0.3152
253	0.99	34.053	*****							300	0.74	34.066	*****	27.33	075	075	0.3536
346	0.51	34.080	*****							400	0.37	34.071	*****	27.35	073	072	0.4275
430	0.30	34.066	*****														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY

KOREA ,JI RI SAN , STATION 103-08 , 36-30.3. N, 130-18.6. E, APR. 6.1982, 17:45 KST, DEPTH 198 , COLOR 3, TRANS. 13.0,

WAVE SE 1, SWELL SE 1, WIND SE 2, BARO 1018. , AIR TEMP. DRY 14.0, WET , CLOUD. TYPE CU, AMT 08, WEATHER C ,

0	13.12	34.541	*****							0	13.12	34.541	*****	26.03	198	198	0.0000
10	13.02	34.550	*****							10	13.02	34.550	*****	26.05	196	196	0.0197
18	12.80	34.543	*****							20	12.62	34.544	*****	26.13	189	189	0.0390
25	12.18	34.547	*****							30	12.04	34.538	*****	26.24	179	179	0.0574
44	11.68	34.516	*****							50	11.67	34.513	*****	26.29	174	174	0.0928
59	11.66	34.510	*****							75	11.60	34.542	*****	26.32	170	172	0.1362
78	11.59	34.548	*****							100	10.06	34.439	*****	26.52	152	153	0.1770
100	10.06	34.439	*****							125	6.77	34.238	*****	26.87	119	120	0.2114
122	7.15	34.256	*****							150	3.67	34.093	*****	27.11	095	096	0.2385
155	3.06	34.064	*****														

KOREA ,JI RI SAN , STATION 103-09 , 36-30.3. N, 130-37.3. E, APR. 6.1982, 19:55 KST, DEPTH 2150 , COLOR , TRANS. ,

WAVE SE 2, SWELL SE 1, WIND SE 3, BARO 1018. , AIR TEMP. DRY 12.5, WET , CLOUD. TYPE NS, AMT 10, WEATHER C ,

0	12.06	34.536	*****							0	12.06	34.536	*****	26.23	179	179	0.0000
10	12.10	34.552	*****							10	12.10	34.552	*****	26.24	178	178	0.0179
20	12.04	34.568	*****							20	12.04	34.568	*****	26.26	176	176	0.0356
30	11.97	34.557	*****							30	11.97	34.557	*****	26.26	176	176	0.0533
50	11.42	34.487	*****							50	11.42	34.487	*****	26.31	171	172	0.0882
75	11.19	34.464	*****							75	11.19	34.464	*****	26.34	169	170	0.1311
113	10.85	34.458	*****							100	10.96	34.460	*****	26.38	165	167	0.1734
139	7.37	34.245	*****							125	9.24	34.359	*****	26.59	145	147	0.2128
160	4.04	34.097	*****							150	5.62	34.167	*****	26.96	110	112	0.2452
204	1.97	34.041	*****							200	2.15	34.046	*****	27.21	086	086	0.2949

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

264	1.31	34.045	*****							250	1.46	34.044	*****	27.26	081	081	0.3371
303	0.98	34.030	*****							300	1.00	34.031	*****	27.28	079	079	0.3775
402	0.46	34.077	*****							400	0.47	34.076	*****	27.35	073	072	0.4537
509	0.32	34.054	*****							500	0.33	34.055	*****	27.34	073	073	0.5268

KOREA JI RI SAN , STATION 103-10 , 36-30.3. N, 130-55.6. E, APR. 6.1982, 22:05 KST, DEPTH 1800 , COLOR , TRANS.

WAVE SE 1, SWELL SE 1, WIND SE 3, BARO 1018. , AIR TEMP. DRY 12.5, WET , CLOUD. TYPE NS, AMT 10, WEATHER C. ,

0	11.41	34.437	*****							0	11.41	34.437	*****	26.28	175	174	0.0000
10	11.40	34.470	*****							10	11.40	34.470	*****	26.30	172	172	0.0173
20	11.22	34.466	*****							20	11.22	34.466	*****	26.33	169	169	0.0344
30	11.15	34.466	*****							30	11.15	34.466	*****	26.35	168	168	0.0514
50	11.10	34.462	*****							50	11.10	34.462	*****	26.35	167	168	0.0851
75	11.11	*****	*****							75	11.11	34.449	*****	26.34	169	170	0.1275
99	11.04	*****	*****							100	11.00	34.436	*****	26.35	168	170	0.1701
124	10.25	34.425	*****							125	10.21	34.422	*****	26.48	155	158	0.2111
154	9.11	34.345	*****							150	9.26	34.355	*****	26.59	145	148	0.2494
193	3.64	34.088	*****							200	3.36	34.081	*****	27.14	093	094	0.3102
245	1.60	34.040	*****							250	1.52	34.039	*****	27.25	082	082	0.3546
282	1.07	34.036	*****							300	0.98	34.035	*****	27.29	079	079	0.3950
377	0.63	34.034	*****							400	0.57	34.041	*****	27.32	076	076	0.4727
481	0.37	34.070	*****														

KOREA JI RI SAN , STATION 103-11 , 36-30.3. N, 131-14.0. E, APR. 7.1982, 00:15 KST, DEPTH 2100 , COLOR , TRANS.

WAVE SE 1, SWELL SE 1, WIND SE 3, BARO 1018. , AIR TEMP. DRY 12.5, WET , CLOUD. TYPE NS, AMT 10, WEATHER C. ,

0	12.00	34.480	*****							0	12.00	34.480	*****	26.20	182	182	0.0000
10	11.96	34.513	*****							10	11.96	34.513	*****	26.23	178	178	0.0100

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY
21	11.77	34.509	*****							20	11.78	34.509	*****	26.26	176	176	0.0358
33	11.70	34.496	*****							30	11.71	34.499	*****	26.27	175	176	0.0535
61	11.70	34.504	*****							50	11.70	34.500	*****	26.27	175	176	0.0887
87	11.25	34.481	*****							75	11.45	34.491	*****	26.31	171	173	0.1325
116	10.54	34.442	*****							100	10.93	34.463	*****	26.38	164	166	0.1750
139	9.77	34.397	*****							125	10.23	34.424	*****	26.48	156	158	0.2157
160	8.73	34.353	*****							150	9.22	34.373	*****	26.61	143	146	0.2538
208	5.76	34.164	*****							200	6.25	34.195	*****	26.90	115	118	0.3199
265	2.02	34.051	*****							250	3.00	34.080	*****	27.17	090	091	0.3725
310	1.32	34.034	*****							300	1.47	34.037	*****	27.26	082	082	0.4160
411	0.57	34.046	*****							400	0.65	34.044	*****	27.32	076	076	0.4955
486	0.38	34.037	*****														

6月(June)

KOREA .JI RI SAN , STATION 103-04 , 36-30.3. N, 129-30.1. E, JUN. 8.1982, 13:10 KST, DEPTH 110 , COLOR 3, TRANS. 10.0,
 WAVE , SWELL E 1, WIND NE 2, BARO 1012. , AIR TEMP. DRY 25.6, WET , CLOUD. TYPE , AMT , WEATHER B ,
 0 18.07 34.246 ***** 24.69 325 325 0.0000
 10 14.32 34.344 ***** 25.63 236 236 0.0281
 20 9.70 34.329 ***** 26.49 154 154 0.0476
 30 4.79 34.172 ***** 27.06 100 100 0.0604
 50 3.14 34.109 ***** 27.18 089 089 0.0795
 75 2.65 34.100 ***** 27.22 086 086 0.1014
 97 1.98 34.082 *****

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA , JI RI SAN , STATION 103-05 , 36-30.3. N, 129-35.4. E, JUN. 8.1982, 14:10 KST, DEPTH 205 , COLOR 3, TRANS. 10.0,
 WAVE , SWELL E 1, WIND NW 2, BARO 1012. , AIR TEMP. DRY 25.7, WET , CLOUD. TYPE , AMT , WEATHER B ,

0	17.98	34.195	*****							0	17.98	34.195	*****	24.68	327	327	0.0000
10	17.41	34.203	*****							10	17.41	34.203	*****	24.82	313	313	0.0320
20	13.22	34.329	*****							20	13.22	34.329	*****	25.84	216	216	0.0585
28	10.82	34.345	*****							30	10.29	34.326	*****	26.39	164	164	0.0776
45	6.35	34.185	*****							50	5.89	34.174	*****	26.93	113	113	0.1054
66	4.43	34.139	*****							75	3.67	34.119	*****	27.14	093	093	0.1313
88	2.58	34.092	*****							100	2.18	34.083	*****	27.24	083	083	0.1535
116	1.65	34.072	*****							125	1.60	34.073	*****	27.28	080	080	0.1740
141	1.52	34.076	*****							150	1.47	34.076	*****	27.29	079	079	0.1940
201	1.21	34.076	*****							200	1.21	34.076	*****	27.31	077	077	0.2332

KOREA , JI RI SAN , STATION 103-06 , 36-30.3. N, 129-47.3. E, JUN. 8.1982, 15:45 KST, DEPTH 235 , COLOR 3, TRANS. 16.0,
 WAVE NE 1, SWELL NE 1, WIND NE 2, BARO 1011.5, AIR TEMP. DRY 25.5, WET , CLOUD. TYPE , AMT , WEATHER B ,

0	19.76	34.350	*****							0	19.76	34.350	*****	24.34	358	358	0.0000
10	18.87	34.304	*****							10	18.87	34.304	*****	24.54	340	340	0.0349
20	15.78	34.323	*****							20	15.78	34.323	*****	25.29	268	269	0.0654
30	14.29	34.396	*****							30	14.29	34.396	*****	25.67	232	232	0.0905
50	14.23	34.416	*****							50	14.23	34.416	*****	25.70	229	230	0.1369
75	13.43	34.378	*****							75	13.43	34.378	*****	25.84	216	218	0.1930
94	5.70	34.225	*****							100	4.71	34.195	*****	27.09	098	099	0.2327
115	2.24	34.120	*****							125	1.97	34.104	*****	27.27	080	080	0.2552
141	1.56	34.080	*****							150	1.50	34.081	*****	27.29	079	079	0.2751
203	1.20	34.093	*****							200	1.21	34.092	*****	27.32	076	076	0.3140
230	1.06	34.084	*****														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY

FOREA .JI RI SAN . STATION 103-07 . 36-30.3. N. 130-00.0. E. JUN. 8.1982, 17:20 KST, DEPTH 850 . COLOR 3, TRANS. 15.0,

WAVE . SWELL NE 1, WIND NE 3, BARO 1012. . AIR TEMP. DRY 25.4. WET . CLOUD. TYPE . AMT . WEATHER RC.

0	20.14	34.330	*****							0	20.14	34.330	*****	24.23	369	369	0.0000
10	19.90	34.360	*****							10	19.90	34.360	*****	24.32	361	361	0.0365
20	18.70	34.398	*****							20	18.70	34.398	*****	24.65	329	329	0.0711
30	14.87	34.400	*****							30	14.87	34.400	*****	25.55	243	244	0.0998
50	14.32	34.407	*****							50	14.32	34.407	*****	25.68	232	233	0.1476
75	14.34	34.410	*****							75	14.34	34.410	*****	25.67	232	234	0.2060
99	8.56	34.347	*****							100	8.54	34.339	*****	26.69	136	137	0.2525
125	8.70	34.157	*****							125	8.20	34.157	*****	26.60	144	146	0.2880
150	2.04	34.090	*****							150	2.04	34.090	*****	27.26	082	082	0.3166
203	1.26	34.075	*****							200	1.30	34.075	*****	27.30	078	078	0.3568
266	1.02	34.088	*****							250	1.08	34.084	*****	27.32	076	076	0.3954
312	0.69	34.090	*****							300	0.77	34.089	*****	27.34	073	073	0.4328
407	0.48	34.083	*****							400	0.49	34.083	*****	27.36	072	072	0.5059
510	0.40	*****	*****							500	0.40	*****	*****	*****	***	***	*****

FOREA .JI RI SAN . STATION 103-08 . 36-30.3. N. 130-18.6. E. JUN. 8.1982, 19:40 KST, DEPTH 198 . COLOR . TRANS. .

WAVE . SWELL NE 1, WIND NE 2, BARO 1014. . AIR TEMP. DRY 18.5. WET . CLOUD. TYPE . AMT . WEATHER R.

0	18.95	34.463	*****							0	18.95	34.463	*****	24.64	330	330	0.0000
10	18.70	34.444	*****							10	18.90	34.444	*****	24.64	331	331	0.0330
20	16.00	34.437	*****							20	16.02	34.437	*****	25.32	265	265	0.0629
30	15.63	34.406	*****							30	15.63	34.406	*****	25.39	259	260	0.0892
50	14.91	34.501	*****							50	14.91	34.501	*****	25.62	237	238	0.1391
75	14.54	34.507	*****							75	14.56	34.507	*****	25.70	229	231	0.1778

OBSERVED										INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY	

104	13.17	34.519	*****							100	13.36	34.517	*****	25.96	205	207	0.2527
123	10.90	34.488	*****							125	10.70	34.477	*****	26.44	160	162	0.2989
153	8.02	34.331	*****							150	8.30	34.346	*****	26.73	132	134	0.3361
193	2.56	34.082	*****														

KOREA , JI RI SAN , STATION 103-09 , 36-30.3. N, 130-37.3. E, JUN. 8.1982, 21:55 KST, DEPTH 2150 , COLOR , TRANS. ,

WAVE , SWELL NE 1, WIND NE 2, BARO 1012. , AIR TEMP. DRY 17.5, WET , CLOUD. TYPE NS, AMT 05, WEATHER BC,

0	18.70	34.452	*****							0	18.70	34.452	*****	24.67	325	325	0.0000
10	17.80	34.460	*****							10	17.80	34.460	*****	24.92	303	303	0.0314
20	16.85	34.472	*****							20	16.85	34.472	*****	25.16	281	281	0.0607
30	16.05	34.512	*****							30	16.05	34.512	*****	25.37	260	261	0.0879
50	13.45	34.508	*****							50	13.45	34.508	*****	25.93	207	208	0.1349
75	12.92	34.485	*****							75	12.92	34.485	*****	26.02	199	200	0.1860
109	10.70	34.446	*****							100	11.28	34.456	*****	26.31	171	173	0.2328
129	9.38	34.381	*****							125	9.64	34.394	*****	26.55	148	151	0.2734
153	6.88	34.247	*****							150	7.19	34.263	*****	26.83	122	124	0.3079
210	3.85	34.074	*****							200	4.38	34.104	*****	27.05	101	103	0.3649
291	1.55	34.056	*****							250	2.71	34.065	*****	27.18	089	090	0.4133
310	1.02	34.066	*****							300	1.29	34.060	*****	27.29	079	079	0.4557
422	0.45	34.073	*****							400	0.56	34.071	*****	27.34	074	073	0.5324
511	0.40	34.073	*****							500	0.40	34.073	*****	27.35	073	072	0.6055

KOREA , JI RI SAN , STATION 103-10 , 36-30.3. N, 130-55.6. E, JUN. 9.1982, 00:15 KST, DEPTH 1800 , COLOR , TRANS. ,

WAVE , SWELL , WIND SW 2, BARO 1014.5, AIR TEMP. DRY 16.2, WET , CLOUD. TYPE , AMT , WEATHER P ,

0	18.15	34.467	*****							0	18.15	34.467	*****	24.84	311	311	0.0000
10	17.37	34.462	*****							10	17.37	34.462	*****	25.03	293	293	0.0302

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY
20	15.78	34.478	*****							20	15.78	34.478	*****	25.41	257	257	0.0578
30	15.42	34.486	*****							30	15.42	34.486	*****	25.50	249	249	0.0832
50	14.35	34.520	*****							50	14.35	34.520	*****	25.76	224	225	0.1307
75	13.31	34.550	*****							75	13.31	34.550	*****	26.00	201	203	0.1843
97	11.54	34.511	*****							100	11.46	34.506	*****	26.32	170	173	0.2314
108	11.27	34.494	*****							125	11.01	34.478	*****	26.38	165	167	0.2740
135	10.86	34.469	*****							150	9.42	34.392	*****	26.59	145	148	0.3135
175	7.04	34.266	*****							200	5.07	34.177	*****	27.03	103	105	0.3769
222	3.34	34.100	*****							250	2.10	34.085	*****	27.25	082	083	0.4241
265	1.44	34.078	*****							300	1.14	34.075	*****	27.31	077	077	0.4644
348	0.74	34.071	*****							400	0.55	34.074	*****	27.35	073	073	0.5398
446	0.39	34.077	*****														
KOREA , J1 RI SAN , STATION 103-11 , 36-30.3. N, 131-14.0. E, JUN. 9, 1982, 02:30 KST, DEPTH 2100 , COLOR , TRANS.																	
WAVE , SWELL NE 1, WIND NE 2, BARO 1014.5, AIR TEMP. DRY 17.2, WET										; CLOUD. TYPE , AMT , WEATHER B ,							
0	18.00	34.519	*****							0	18.00	34.519	*****	24.92	304	303	0.0000
10	17.41	34.539	*****							10	17.41	34.539	*****	25.08	289	289	0.0296
20	16.13	34.523	*****							20	16.13	34.523	*****	25.37	261	262	0.0572
30	16.05	34.490	*****							30	16.05	34.490	*****	25.36	262	263	0.0834
49	13.68	34.496	*****							50	13.61	34.496	*****	25.89	211	212	0.1310
74	12.10	34.514	*****							75	12.04	34.512	*****	26.22	180	182	0.1804
87	11.37	34.492	*****							100	10.96	34.461	*****	26.38	165	167	0.2241
100	10.96	34.461	*****							125	9.95	34.399	*****	26.51	153	155	0.2645
125	9.95	34.399	*****							150	6.79	34.246	*****	26.87	118	120	0.2991
168	4.52	34.136	*****							200	3.28	34.093	*****	27.15	091	093	0.3525

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA T	D-T	SVA	D DY

274	2.35	34.062	*****							250	1.90	34.062	*****	27.25	083	083	0.3967
282	1.36	34.062	*****							300	1.04	34.065	*****	27.31	077	077	0.4370
310	0.77	34.069	*****														
362	0.47	34.080	*****														

8月(August)

1006A JJ RI SAN : STATION 103-04 , 36-30.3. N, 129-30.1. E. AUG. 7.1982. 03:00 KST. DEPTH 110 . COLOR . TRANS.

WAVE SW 1. SWELL SW 1. WIND SW 2. BARO 1007.5. AIR TEMP. DRY 25.3. WET . CLOUD. TYPE . AMT . WEATHER P .

0	23.56	33.061	*****							0	23.56	33.061	*****	22.32	552	551	0.0000
10	20.65	34.183	*****							10	20.65	34.183	*****	23.98	393	393	0.0472
20	15.33	34.101	*****							20	15.33	34.101	*****	25.22	275	275	0.0807
30	13.43	34.077	*****							30	13.43	34.077	*****	25.61	239	239	0.1064
52	12.33	34.300	*****							50	12.43	34.279	*****	25.96	205	205	0.1510
78	10.60	34.404	*****							75	10.79	34.392	*****	26.35	167	169	0.1979
105	4.33	34.179	*****							100	5.43	34.220	*****	27.07	104	105	0.2322

1006A JJ RI SAN : STATION 103-05 , 36-30.3. N, 129-35.4. E. AUG. 7.1982. 01:55 KST. DEPTH 205 . COLOR . TRANS.

WAVE SW 1. SWELL SW 1. WIND SW 1. BARO 1007.5. AIR TEMP. DRY 25.2. WET . CLOUD. TYPE . AMT . WEATHER BC.

0	24.03	33.043	*****							0	24.03	33.043	*****	22.17	566	566	0.0000
10	21.12	33.533	*****							10	21.12	33.533	*****	23.36	452	452	0.0509
20	14.45	34.075	*****							20	14.45	34.075	*****	25.39	259	259	0.0865
30	14.33	34.090	*****							30	14.33	34.090	*****	25.43	255	256	0.1123
50	13.08	34.247	*****							50	13.08	34.242	*****	25.80	220	220	0.1600
75	9.94	34.394	*****							75	9.94	34.394	*****	26.50	153	154	0.2070
105	6.06	34.264	*****							100	6.47	34.277	*****	26.94	112	113	0.2405

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY
133	2.46	34.058	*****							125	3.42	34.142	*****	27.18	089	090	0.2660
158	1.60	34.056	*****							150	1.87	34.096	*****	27.28	080	080	0.2873
202	0.88	34.054	*****							200	0.91	34.055	*****	27.31	077	077	0.3268
KOREA , JI RI SAN , STATION 103-06 , 36-30.3. N, 129-47.3. E, AUG. 7.1982. 00:20 KST. DEPTH 235 , COLOR , TRANS.																	
WAVE SW 1. SWELL SW 1. WIND SW 1. BARO 1007.5. AIR TEMP. DRY 24.9. WET , CLOUD. TYPE , AMT , WEATHER BC,																	
0	24.60	34.009	*****							0	24.60	34.009	*****	22.73	513	512	0.0000
10	24.26	34.160	*****							10	24.26	34.160	*****	22.95	492	492	0.0502
20	22.57	34.349	*****							20	22.57	34.349	*****	23.58	431	432	0.0964
30	16.90	34.370	*****							30	16.90	34.370	*****	25.07	289	290	0.1326
50	15.22	34.474	*****							50	15.22	34.474	*****	25.53	245	246	0.1863
81	11.07	34.459	*****							75	11.87	34.461	*****	26.21	181	182	0.2401
115	8.36	34.302	*****							100	9.55	34.371	*****	26.55	149	150	0.2818
140	5.10	34.177	*****							125	7.05	34.252	*****	26.84	121	123	0.3161
163	2.66	34.059	*****							150	4.03	34.125	*****	27.10	096	097	0.3437
195	2.70	34.050	*****							200	2.53	34.048	*****	27.18	089	089	0.3906
233	1.42	34.040	*****														
KOREA , JI RI SAN , STATION 103-07 , 36-30.3. N, 130-00.0. E, AUG. 6.1982. 22:30 KST. DEPTH 850 , COLOR , TRANS.																	
WAVE SW 1. SWELL SW 1. WIND SW 2. BARO 1006. , AIR TEMP. DRY 25.0. WET , CLOUD. TYPE , AMT , WEATHER P ,																	
0	24.15	32.870	*****							0	24.15	32.870	*****	22.00	582	582	0.0000
10	22.05	33.043	*****							10	22.05	33.043	*****	22.74	512	512	0.0547
19	20.62	33.224	*****							20	20.35	33.307	*****	23.39	449	449	0.1028
28	18.27	33.974	*****							30	17.85	34.025	*****	24.58	336	337	0.1422
47	14.28	34.467	*****							50	13.77	34.457	*****	25.83	217	218	0.1977
71	10.25	34.392	*****							75	9.82	34.372	*****	26.51	153	154	0.2444

OBSERVED																	INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D DY								

104	6.89	34.235	*****							100	7.29	34.254	*****	26.81	124	126	0.2795
139	3.62	34.069	*****							125	4.92	34.135	*****	27.02	105	106	0.3085
154	2.26	34.047	*****							150	2.62	34.052	*****	27.18	089	089	0.3330
208	1.07	34.040	*****							200	1.24	34.041	*****	27.28	080	080	0.3756
263	0.79	34.046	*****							250	0.85	34.044	*****	27.30	077	077	0.4151
317	0.48	34.062	*****							300	0.57	34.056	*****	27.33	075	074	0.4533
424	0.31	34.051	*****							400	0.34	34.053	*****	27.34	074	073	0.5276
528	0.27	34.055	*****							500	0.28	34.053	*****	27.34	073	073	0.6011

KOREA . JI RI SAN ; STATION 103-08 ; 36-30.3. N, 130-18.6. E, AUG. 6.1982, 20:15 KST, DEPTH 198 . COLOR , TRANS.

WAVE SW 1, SWELL SW 1, WIND SW 2, BARD 1006. , AIR TEMP. DRY 25.5, WET ; CLOUD. TYPE , AMT , WEATHER BC,

0	24.30	32.749	*****							0	24.30	32.749	*****	21.87	595	595	0.0000
10	22.92	32.953	*****							10	22.92	32.953	*****	22.42	542	542	0.0548
19	20.82	33.286	*****							20	20.73	33.284	*****	23.28	460	461	0.1070
28	20.04	33.270	*****							30	19.89	33.306	*****	23.52	438	438	0.1520
46	18.75	33.602	*****							50	17.96	33.683	*****	24.29	364	365	0.2324
67	14.62	34.029	*****							75	13.77	34.074	*****	25.53	245	247	0.3090
100	11.15	34.215	*****							100	11.15	34.215	*****	26.15	186	188	0.3635
117	5.94	34.182	*****							125	3.85	34.107	*****	27.11	096	096	0.3993
124	3.90	34.109	*****							150	2.85	34.079	*****	27.18	087	089	0.4226
176	1.80	34.049	*****														

KOREA . JI RI SAN ; STATION 103-07 . 36-30.3. N, 130-37.3. E, AUG. 6.1982, 17:55 KST, DEPTH 2150 . COLOR 3, TRANS. 22.0,

WAVE SW 1, SWELL SW 1, WIND SW 2, BARD 1006. , AIR TEMP. DRY 27.0, WET ; CLOUD. TYPE CI, AMT 06, WEATHER BC,

0	24.30	32.898	*****							0	24.30	32.898	*****	21.98	584	584	0.0000
10	24.00	32.872	*****							10	24.00	32.872	*****	22.05	578	578	0.0581

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
20	21.19	33.236	****							20	21.19	33.236	****	23.12	475	476	0.1108
29	19.62	33.506	****							30	19.34	33.538	****	23.83	407	408	0.1550
48	14.43	34.118	****							50	14.41	34.139	****	25.45	253	254	0.2213
71	14.29	34.361	****							75	13.73	34.377	****	25.78	222	224	0.2812
96	10.79	34.463	****							100	10.28	34.436	****	26.48	155	157	0.3290
133	6.08	34.215	****							125	7.09	34.268	****	26.85	121	122	0.3641
151	3.69	34.082	****							150	3.82	34.089	****	27.10	097	098	0.3917
222	1.58	34.035	****							200	2.23	34.049	****	27.21	086	087	0.4381
265	1.13	34.043	****							250	1.28	34.040	****	27.27	080	080	0.4801
315	0.72	34.052	****							300	0.84	34.049	****	27.31	077	077	0.5196
417	0.45	34.055	****							400	0.49	34.054	****	27.33	074	074	0.5955
522	0.32	34.059	****							500	0.34	34.058	****	27.34	073	073	0.6695
KOREA . J1 R1 5AM . STATION 103-10 . 36-30.3. N. 150-55.6. E. AUG. 6.1982. 15:40 KST. DEPTH 1800 . COLOR 2. TRANS. 23.0.																	
WAVE SW 2. SWELL SW 2. WIND SW 3. PAFD 100%. . AIR TEMP. DRY 28.5. WET . CLOUD. TYPE CI, AMI 05. WEATHER BC.																	
0	24.93	33.584	****							0	24.93	33.584	****	22.31	553	557	0.0000
10	23.67	34.235	****							10	23.67	34.235	****	23.18	470	470	0.0511
20	18.21	34.213	****							20	18.21	34.213	****	24.63	331	331	0.0912
30	16.45	34.345	****							30	16.45	34.345	****	25.15	281	282	0.1219
50	15.12	34.428	****							50	15.12	34.428	****	25.52	247	248	0.1750
75	13.97	34.490	****							75	13.97	34.490	****	25.81	219	220	0.2336
102	13.68	34.474	****							100	13.70	34.475	****	25.86	214	217	0.2884
137	12.45	34.190	****							125	12.87	34.287	****	25.88	217	215	0.7425
163	9.88	34.177	****							150	9.16	34.183	****	26.47	156	159	0.3894
200	1.21	34.058	****							200	1.21	34.058	****	27.29	078	078	0.4490

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
10	21.62	32.908	5.62							10	21.62	32.908	5.62	22.75	510	510	0.0510
20	21.35	32.982	5.52							20	21.35	32.982	5.52	22.88	498	498	0.1015
29	14.30	33.901	4.99							30	13.98	33.911	4.99	25.36	261	262	0.1396
53	6.68	34.141	5.00							50	7.63	34.111	4.99	26.65	140	140	0.1799
72	3.46	34.121	5.19							75	3.19	34.115	5.24	27.18	089	089	0.2087
94	1.53	34.078	5.60														
KOREA .JI RI SAN . STATION 103-05 . 36-30.3. N. 129-35.4. E. OCT. 6.1982. 12:50 KST. DEPTH 205 . COLOR 3. TRANS. 17.0.																	
WAVE HE 1. SWELL HE 2. WIND SE 3. PAFO 1018. . AIR TEMP. DRY 23.0. WET . CLOUD. TYPE . AMT . WEATHER P .																	
0	21.86	32.846	5.20							0	21.86	32.846	5.20	22.64	521	521	0.0000
10	21.15	32.964	5.58							10	21.15	32.964	5.58	22.92	494	494	0.0507
20	20.47	33.081	5.49							20	20.47	33.081	5.49	23.19	468	469	0.0989
28	15.98	33.663	5.28							30	15.42	33.715	5.27	24.90	305	306	0.1377
48	10.47	34.186	5.22							50	8.92	34.174	5.18	26.50	153	154	0.1838
56	4.29	34.140	5.08							75	2.53	34.096	5.29	27.22	085	085	0.2138
77	2.35	34.092	5.39							100	1.87	34.073	5.20	27.26	082	082	0.2348
98	1.89	34.073	5.17							125	1.67	34.075	5.51	27.27	080	080	0.2551
115	1.73	34.073	5.49							150	1.52	34.081	5.59	27.29	079	079	0.2751
160	1.47	34.084	5.62														
FOREA .JI RI SAN . STATION 103-06 . 36-30.3. N. 129-47.3. E. OCT. 6.1982. 14:15 KST. DEPTH 235 . COLOR 3. TRANS. 18.0.																	
WAVE HE 1. SWELL HE 2. WIND SE 3. PAFO 1016.5. AIR TEMP. DRY 23.5. WET . CLOUD. TYPE . AMT . WEATHER P .																	
0	22.23	33.502	5.21							0	22.23	33.502	5.21	23.03	484	483	0.0000
10	22.17	32.649	5.49							10	22.13	32.649	5.49	22.42	543	543	0.0513
20	22.23	32.719	5.08							20	22.23	32.719	5.08	22.44	540	540	0.1055

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D.T	SVA	D DY
30	20.81	32.934	4.70							30	20.81	32.934	4.70	22.99	488	488	0.1570
46	20.44	33.820	5.11							50	19.29	33.763	5.02	24.02	390	391	0.2450
64	15.30	33.564	4.74							75	15.05	34.070	4.82	25.26	271	271	0.3281
82	14.86	34.393	*****							100	14.08	34.428	4.78	25.74	225	228	0.3907
100	14.08	34.428	4.78							125	2.70	34.096	5.24	27.21	086	087	0.4302
122	2.77	34.098	5.21							150	2.18	34.079	5.51	27.24	084	084	0.4516
162	1.94	34.072	5.65							200	1.15	34.094	5.72	27.32	075	075	0.4917
205	1.05	34.097	5.74														

KOREA . J1 R1 SAN . STATION 103-07 . 36-30.3. N. 130-00.0. E. OCT. 6. 1982. 15:40 LST. DEPTH 850 . COLOR 5. TRANS. 13.0.

WAVE NE	1. SWELL NE	1. WIND E	1. BARO 1016.	AIR TEMP.	DRY	22.0.	WET	CLOUD.	TYPE	AMT	WEATHER B.
0	22.36	33.093	5.29				0	22.36	33.093	5.29	22.69 517 516 0.0000
10	21.53	33.048	5.40				10	21.53	33.048	5.40	22.88 498 498 0.0507
18	21.18	33.059	5.21				20	21.13	33.101	5.22	23.03 484 484 0.0799
27	20.97	33.250	5.29				30	20.27	33.380	5.27	23.47 442 442 0.1462
42	17.51	33.902	5.19				50	16.69	34.054	5.02	24.87 308 309 0.2215
62	15.48	34.284	4.77				75	15.19	34.367	4.75	25.46 253 254 0.2920
82	15.04	34.412	4.75				100	13.52	34.425	4.88	25.85 215 217 0.3511
97	13.98	34.420	4.82				125	8.79	34.352	5.30	26.66 138 140 0.3959
115	11.27	34.451	5.19				150	2.60	34.107	5.57	27.23 085 085 0.4242
151	2.36	34.098	5.59				200	1.47	34.067	5.78	27.28 079 080 0.4656
195	1.54	34.069	5.80				250	0.98	34.062	5.74	27.31 077 077 0.5049
234	1.05	34.061	5.72				300	0.76	34.067	5.81	27.33 075 075 0.5430
317	0.69	34.069	5.84				400	0.47	34.074	5.78	27.35 073 072 0.6172

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY

KOREA , JI RI SAN , STATION 103-08 , 36-30.3. N, 130-18.6. E, OCT. 6.1982, 17:50 KST, DEPTH 198 , COLOR 3, TRANS. 18.0,
 WAVE NE 1, SWELL NE 2, WIND E 1, BARG 1017. , AIR TEMP. DRY 21.5, WET , CLOUD. TYPE , AMT , WEATHER B ,

0	22.00	33.088	5.24							0	22.00	33.088	5.24	22.78	507	507	0.0000
10	21.60	33.000	5.41							10	21.60	33.000	5.41	22.83	503	503	0.0505
20	21.25	33.069	5.44							20	21.25	33.069	5.44	22.98	489	489	0.1002
25	21.19	33.075	5.30							30	20.79	33.193	5.32	23.19	468	469	0.1482
40	20.00	33.431	5.38							50	17.45	33.695	5.29	24.42	351	352	0.2304
57	15.67	33.880	5.24							75	14.82	34.079	4.70	25.32	266	268	0.3080
80	14.59	34.135	4.56							100	14.43	34.346	4.77	25.60	238	241	0.3717
102	14.42	34.368	4.80							125	11.33	34.322	5.30	26.20	182	184	0.4250
123	11.78	34.334	5.30							150	5.76	34.177	5.41	26.95	111	112	0.4622
164	2.64	34.097	5.47														

KOREA , JI RI SAN , STATION 103-09 , 36-30.3. N, 130-37.3. E, OCT. 6.1982, 19:55 KST, DEPTH 2150 , COLOR , TRANS. ,

0	22.22	33.098	5.50							0	22.22	33.098	5.50	22.73	512	512	0.0000
10	22.07	33.006	5.85							10	22.07	33.006	5.85	22.70	515	515	0.0514
20	21.70	33.070	5.50							20	21.70	33.070	5.50	22.85	501	501	0.1022
30	21.14	33.398	5.12							30	21.14	33.398	5.12	23.25	462	463	0.1505
50	16.00	34.159	5.23							50	16.00	34.159	5.23	25.12	285	286	0.2255
75	14.73	34.279	5.30							75	14.73	34.279	5.30	25.49	249	251	0.2928
112	13.51	34.368	4.68							100	13.90	34.352	4.88	25.72	227	230	0.3530
120	11.73	34.373	5.42							125	11.09	34.378	5.47	26.79	173	176	0.4039
141	9.06	34.394	5.63							150	8.09	34.344	5.56	26.76	129	131	0.4474
193	3.50	34.110	5.28							200	3.26	34.103	5.35	27.16	091	092	0.4983

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

250	1.55	34.061	5.92							250	1.55	34.061	5.92	27.27	080	081	0.5416
306	1.00	34.061	5.84							300	1.05	34.061	5.84	27.30	077	077	0.5814
402	0.53	34.067	5.62							400	0.53	34.066	5.62	27.34	074	073	0.6573
510	0.34	34.071	5.88							500	0.35	34.070	5.85	27.35	072	072	0.7704

KOREA .JI RI SAN : STATION 103-10 ; 36-30.3. N, 130-55.6. E, OCT. 6.1982, 22:05 KST, DEPTH 1800 , COLOR , TRANS.

WAVE NE 1, SWELL NE 1, WIND SE 2, BARO 1017. , AIR TEMP. DRY 18.5, WET , CLOUD. TYPE , AMT , WEATHER B ,

0	21.14	33.082	5.48							0	21.14	33.082	5.48	23.01	485	485	0.0000
10	20.56	32.937	5.67							10	20.56	32.937	5.67	23.06	481	481	0.0483
20	20.28	33.373	5.48							20	20.28	33.373	5.48	23.47	442	443	0.0945
30	16.66	34.086	5.07							30	16.66	34.086	5.07	24.91	305	305	0.1320
50	15.20	34.288	5.23							50	15.20	34.288	5.23	25.39	257	260	0.1886
75	14.86	34.309	5.70							75	14.86	34.309	5.70	25.48	250	252	0.2526
107	13.66	34.431	5.82							100	13.92	34.404	5.79	25.76	224	226	0.3125
132	11.11	34.424	5.82							125	11.82	34.425	5.82	26.19	183	185	0.3641
150	8.66	34.324	5.67							150	8.66	34.324	5.67	26.66	138	141	0.4090
208	3.43	34.089	5.87							200	4.15	34.121	5.84	27.09	098	099	0.4652
260	1.75	34.044	5.99							250	2.07	34.052	5.96	27.22	085	085	0.5116
307	1.14	*****	*****							300	1.23	34.067	5.82	27.30	078	078	0.5527
409	0.55	34.056	5.73							400	0.60	34.057	5.73	27.33	075	075	0.6295
520	0.35	34.072	6.00							500	0.38	34.069	5.95	27.35	073	072	0.7034

KOREA .JI RI SAN : STATION 103-11 ; 36-30.3. N, 131-14.0. E, OCT. 7.1982, 00:10 KST, DEPTH 2100 , COLOR , TRANS.

WAVE SW 1, SWELL SW 1, WIND SW 2, BARO 1016. , AIR TEMP. DRY 18.0, WET , CLOUD. TYPE , AMT , WEATHER B ,

0	21.72	32.982	5.46							0	21.72	32.982	5.46	22.78	508	507	0.0000
10	21.47	32.990	5.84							10	21.47	32.990	5.84	22.78	508	507	0.0000

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
20	20.45	32.974	5.33							20	20.45	32.974	5.33	23.12	476	476	0.0993
30	16.77	33.392	5.24							30	16.77	33.392	5.24	24.35	358	358	0.1410
50	15.94	34.084	5.44							50	15.94	34.084	5.44	25.07	289	290	0.2060
75	14.34	34.325	5.63							75	14.34	34.325	5.63	25.61	238	240	0.2724
101	13.83	34.484	5.63							100	13.84	34.477	5.63	25.83	217	219	0.3299
120	11.23	34.492	5.67							125	10.78	34.490	5.67	26.43	160	162	0.3778
152	8.40	34.484	5.73							150	8.57	34.484	5.72	26.80	125	128	0.4142
175	7.59	34.427	****							200	6.04	34.312	5.90	27.02	104	106	0.4730
195	6.31	34.325	5.92							250	3.36	34.187	5.77	27.22	085	087	0.5215
283	1.59	34.105	5.68							300	1.37	34.096	5.74	27.31	077	077	0.5626
350	0.75	34.070	5.77							400	0.64	34.072	5.84	27.34	074	074	0.6384
421	0.60	34.074	5.82														

12月(December)

KOREA JI RI SAM . STATION 103-04 . 36-30.3. N. 127-30.1. E, DEC.17.1982. 17:10 KST, DEPTH 110 , COLOR 4, TRANS. 12.0,
 WAVE NW 1. SWELL NW 1. WIND W 4. BARO 1029. , AIR TEMP. DRY 6.7, WET . CLOUD. TYPE , AMT , WEATHER B ,
 0 13.38 34.231 ***** 25.74 226 226 0.0000
 10 14.03 34.244 5.89 25.61 238 238 0.0232
 20 14.05 34.229 6.05 25.60 239 240 0.0471
 30 14.04 34.232 6.00 25.60 239 239 0.0711
 50 13.47 34.170 6.05 25.67 232 233 0.1185
 70 7.77 34.194 5.74 26.87 118 119 0.1626
 83 4.01 34.140 5.58

OBSERVED										INTERPOLATED					CALCULATED		
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

100FA .JI RI SAN : STATION 103-05 , 36-30.3. N, 129-35.4. E. DEC.19.1982. 18:00 KST. DEPTH 205 . COLOR . TRANS.

WAVE W 1, SWELL W 1, WIND W 4, BARG 1023. , AIR TEMP. DRY 6.5. WET . CLOUD. TYPE , AMT , WEATHER B .

0	14.44	34.232	5.64							0	14.44	34.232	5.64	25.52	247	247	0.0000
10	14.43	34.241	5.86							10	14.43	34.241	5.86	25.52	246	246	0.0246
20	14.47	34.220	5.61							20	14.47	34.220	5.61	25.50	248	247	0.0424
30	12.29	34.278	5.92							30	12.29	34.278	5.92	25.99	202	203	0.0720
50	12.27	34.390	5.85							50	12.27	34.390	5.85	26.08	193	194	0.1118
75	6.12	34.177	****							75	6.12	34.177	5.66	26.90	115	116	0.1507
97	2.86	34.125	5.51							100	2.68	34.121	5.58	27.23	084	085	0.1759
110	2.12	34.109	5.82							125	1.98	34.103	5.74	27.27	080	080	0.1967
167	1.60	34.087	5.55							150	1.75	34.093	5.67	27.28	079	079	0.2168
200	1.26	34.083	5.80							200	1.26	34.083	5.80	27.31	077	077	0.2561

KOREA .JI RI SAN : STATION 103-06 , 36-30.3. N, 129-47.3. E. DEC.19.1982. 19:25 KST. DEPTH 235 . COLOR . TRANS.

WAVE W 2, SWELL W 3, WIND W 4, BARG 1028. , AIR TEMP. DRY 7.5. WET . CLOUD. TYPE , AMT , WEATHER B .

0	15.45	34.327	****							0	15.45	34.327	****	25.37	261	261	0.0000
10	15.48	34.363	5.79							10	15.48	34.363	5.79	25.39	259	259	0.0260
20	15.50	34.338	5.43							20	15.50	34.338	5.43	25.37	261	261	0.0521
30	15.47	34.336	5.20							30	15.47	34.336	5.20	25.37	261	261	0.0782
50	12.20	34.295	5.54							50	12.20	34.295	5.54	26.02	199	200	0.1245
62	7.89	34.248	5.57							75	6.47	34.204	5.62	26.88	117	118	0.1644
91	4.74	34.152	5.69							100	4.15	34.136	5.67	27.10	097	097	0.1914
126	2.47	34.090	5.64							125	2.53	34.071	5.64	27.22	085	086	0.2144
133	1.75	34.065	5.92							150	1.54	34.066	5.81	27.28	080	080	0.2352
179	1.20	34.070	5.64							200	1.10	34.058	5.75	27.30	078	078	0.2749

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA ,JI RI SAN , STATION 103-07 , 36-30.3. N, 130-00.0. E, DEC.19.1982, 20:50 KST, DEPTH 850 , COLOR , TRANS.

WAVE W 2, SWELL W 2, WIND SW 3, BARO 1028. , AIR TEMP. DRY 8.0, WET , CLOUD. TYPE , AMT , WEATHER B ,

0	15.27	34.309	5.75							0	15.27	34.309	5.75	25.39	258	258	0.0000
10	15.28	34.309	5.75							10	15.28	34.309	5.75	25.39	259	259	0.0258
20	15.28	34.295	5.49							20	15.28	34.295	5.49	25.38	260	260	0.0518
30	15.12	34.285	5.30							30	15.12	34.285	5.30	25.41	257	258	0.0778
50	12.53	34.293	5.63							50	12.53	34.293	5.63	25.95	205	206	0.1243
69	8.50	34.293	5.59							75	7.98	34.271	5.63	26.72	133	134	0.1669
99	5.93	34.184	5.82							100	5.85	34.181	5.81	26.94	112	113	0.1978
147	2.75	34.071	5.50							125	4.00	34.115	5.62	27.10	097	097	0.2241
160	2.13	34.074	5.93							150	2.47	34.072	5.69	27.21	086	087	0.2473
181	1.26	34.070	5.90							200	1.13	34.073	5.90	27.31	077	077	0.2884
250	0.81	34.081	5.90							250	0.81	34.081	5.90	27.34	074	074	0.3264
272	0.54	34.069	5.92							300	0.48	34.065	5.82	27.34	074	073	0.3634
356	0.38	34.059	5.64							400	0.37	34.057	5.70	27.34	074	073	0.4371
507	0.35	34.053	5.88							500	0.35	34.053	5.86	27.34	074	073	0.5107

KOREA ,JI RI SAN , STATION 103-08 , 36-30.3. N, 130-18.6. E, DEC.19.1982, 23:00 KST, DEPTH 198 , COLOR , TRANS.

WAVE NW 2, SWELL NW 2, WIND NW 4, BARO 1028. , AIR TEMP. DRY 7.5, WET , CLOUD. TYPE , AMT , WEATHER B ,

0	16.87	34.399	5.42							0	16.87	34.399	5.42	25.10	287	286	0.0000
10	16.84	34.394	****							10	16.84	34.394	5.41	25.10	286	286	0.0286
20	16.78	34.397	5.41							20	16.78	34.397	5.41	25.12	285	285	0.0573
30	16.73	34.419	5.50							30	16.73	34.419	5.50	25.15	282	283	0.0857
50	16.65	34.376	5.40							50	16.65	34.376	5.40	25.13	283	285	0.1425
72	15.76	34.280	5.61							75	14.95	34.278	5.57	25.44	254	256	0.2102

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

104	11.44	34.270	5.23							100	11.57	34.270	5.25	26.12	190	192	0.2663
118	7.71	34.274	5.60							125	7.02	34.237	5.60	26.83	122	124	0.3058
140	5.57	34.158	5.60							150	4.82	34.147	5.62	27.03	103	104	0.3345
185	2.22	34.023	5.63														

FORCA .JI RI SAN , STATION 103-07 , 76-30.3. N, 130-57.3. E, DEC.20.1987, 01:05 EST, DEPTH 2150 , COLOR , TRANS.

WAVE NW	1. SWELL NW	2. WIND NW	3. BARD 1028.	AIR TEMP.	DRY	R.F. WET	CLOUD.	TYPE	AMT	WEATHER	R.
0	16.53	34.202	****	0	16.53	34.202	****	25.03	293	293	0.0000
10	16.56	34.214	5.41	10	16.56	34.214	5.41	25.03	293	293	0.0293
20	16.57	34.208	5.59	20	16.57	34.208	5.59	25.02	294	294	0.0587
30	16.57	34.211	5.50	30	16.57	34.211	5.50	25.02	294	294	0.0882
50	16.56	34.202	5.43	50	16.56	34.202	5.43	25.02	294	295	0.1475
75	16.57	34.212	5.63	75	16.57	34.212	5.63	25.03	294	295	0.2212
100	16.56	34.201	5.21	100	16.56	34.201	5.21	25.02	294	297	0.2954
134	11.55	34.221	5.62	125	12.87	34.287	5.56	23.88	212	215	0.3595
165	7.54	34.253	5.88	150	9.48	34.285	5.78	26.50	154	156	0.4060
207	3.53	34.109	6.05	200	4.19	34.133	6.02	27.09	097	099	0.4701
266	1.56	34.066	5.80	250	2.09	34.077	5.86	27.24	083	084	0.5159
302	1.08	34.060	5.72	300	1.10	34.060	5.72	27.30	078	078	0.5565
410	0.43	34.059	5.71	400	0.54	34.059	5.71	27.33	074	074	0.6329
501	0.37	34.081	5.71	500	0.37	34.080	5.71	27.36	072	071	0.7060

FORCA .JI RI SAN , STATION 103-10 , 76-30.3. N, 130-55.6. E, DEC.20.1982, 03:15 EST, DEPTH 1800 , COLOR , TRANS.

WAVE NW	1. SWELL NW	2. WIND NW	3. BARD 1028.	AIR TEMP.	DRY	R.F. WET	CLOUD.	TYPE	AMT	WEATHER	R.
0	14.74	34.322	5.84	0	16.76	34.322	5.84	25.02	294	294	0.0000
10	16.74	34.331	****								

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

20	17.02	34.390	5.49							20	17.02	34.390	5.49	25.06	291	291	0.0586
28	16.94	34.338	5.51							30	16.92	34.338	5.51	25.04	292	293	0.0879
47	16.80	34.341	5.51							50	16.74	34.347	5.57	25.09	288	289	0.1461
66	16.48	34.380	5.50							75	16.35	34.389	5.64	25.21	276	278	0.2171
85	16.21	34.400	5.56							100	15.18	34.417	5.39	25.50	249	251	0.2834
152	11.65	34.480	5.51							125	13.48	34.447	5.44	25.88	212	215	0.3418
165	11.14	34.464	5.62							150	11.78	34.477	5.50	26.24	178	182	0.3915
201	8.73	34.336	5.82							200	8.77	34.379	5.81	26.65	139	143	0.4728
255	3.90	34.116	6.10							250	4.34	34.136	6.07	27.08	098	100	0.5339
294	2.13	34.061	6.22							300	1.94	34.060	6.22	27.24	083	084	0.5803
405	0.76	34.053	6.25							400	0.81	34.053	6.24	27.31	076	076	0.6610
497	0.44	34.077	5.85														

POSSE: 21 11 300 STATION 103 11 30 103 11 31 14.0. E. DEPTH 1000, 05.00 1001, DEPTH 2100, COLOR, TRANS.

WAVE NW	1. SWELL NW	1. WIND NW	3. BARO	1027.5. AIR TEMP.	DRY	9.0. WET	CLOUD.	TYPE	AMT	WEATHER	B			
0	15.28	34.024	5.80				0	15.28	34.024	5.80	25.17	280	279	0.0000
10	15.30	34.016	5.69				10	15.30	34.016	5.69	25.16	281	281	0.0280
19	15.36	34.012	5.69				20	15.35	34.013	5.68	25.15	282	282	0.0562
28	15.27	34.024	5.65				30	15.27	34.023	5.64	25.17	280	280	0.0843
46	15.37	34.015	5.60				50	15.32	34.021	5.70	25.16	281	282	0.1406
65	15.35	34.048	6.10				75	14.87	34.229	5.95	25.42	256	258	0.2082
79	14.68	34.302	5.90				100	13.56	34.353	5.87	25.79	221	223	0.2684
142	11.77	34.455	5.82				125	12.75	34.613	5.84	26.10	191	194	0.3206
158	11.09	34.464	5.64				150	11.21	34.459	5.73	26.33	169	173	0.3665
204	10.75	34.476	6.22				200	10.87	34.479	6.14	26.58	164	168	0.4520

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
248	8.27	34.306	6.22							250	8.03	34.296	6.21	26.73	132	135	0.5283
288	3.64	34.106	6.10							300	3.39	34.101	6.08	27.15	092	094	0.5858
431	0.77	34.057	5.90							400	1.39	34.067	5.94	27.29	079	079	0.6729
476	0.36	34.089	5.85														

102線 海洋觀測 成績

Oceanographic Data. Line 102

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

2月(February)

KOREA .JI RI SAN , STATION 102-04 , 36-04.6. N, 129-36.9. E. FEB.10.1982, 14:30 KST, DEPTH 52 , COLOR 3, TRANS. 14.0, WAVE SW 1, SWELL SW 1, WIND W 3, BARO 1025. , AIR TEMP. DRY 9.2, WET , CLOUD. TYPE , AMT , WEATHER B ,																	
0	11.88	34.456	****							0	11.88	34.456	****	26.20	182	181	0.0000
10	11.92	34.464	****							10	11.92	34.464	****	26.20	182	182	0.0181
20	11.92	34.468	****							20	11.92	34.468	****	26.21	181	182	0.0364
30	11.85	34.468	****							30	11.85	34.468	****	26.22	180	181	0.0545
50	11.87	34.460	****							50	11.87	34.460	****	26.21	181	182	0.0909
KOREA .JI RI SAN , STATION 102-05 , 36-04.6. N, 129-41.3. E, FEB.10.1982, 15:40 KST, DEPTH 210 , COLOR 3, TRANS. 12.0, WAVE SW 1, SWELL SW 1, WIND W 2, BARO 1026. , AIR TEMP. DRY 5.2, WET , CLOUD. TYPE CI, AMT 03, WEATHER BC ,																	
0	11.70	34.451	****							0	11.70	34.451	****	26.23	179	178	0.0000
10	11.63	34.485	****							10	11.63	34.485	****	26.27	175	175	0.0177
19	11.63	34.474	****							20	11.63	34.473	****	26.26	176	176	0.0353
29	11.65	34.469	****							30	11.64	34.468	****	26.26	176	177	0.0530
48	11.54	34.454	****							50	11.44	34.439	****	26.27	175	176	0.0883
72	10.36	34.275	****							75	9.03	34.242	****	26.54	150	151	0.1293
80	6.82	34.189	****							100	3.50	34.055	****	27.10	096	097	0.1605
100	3.50	34.055	****							125	2.37	34.017	****	27.17	090	090	0.1839
119	2.54	34.015	****							150	1.70	34.027	****	27.23	084	084	0.2058
160	1.44	34.031	****														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAI	O2	SIGMA-T	D-T	SVA	D-DY

KOREA .JI RI SAN , STATION 102-06 , 36-04.6. N, 129-47.8. E, FEB. 4.1982, 13:30 KST, DEPTH 700 , COLOR 3, TRANS. 11.0,

WAVE NE 2, SWELL NE 2, WIND NE 4, BARO 1018. , AIR TEMP. DRY 6.7, WET , CLOUD. TYPE NS, AMT 10, WEATHER R ,

0	13.14	34.505	*****							0	13.14	34.505	*****	26.00	201	201	0.0000
9	13.28	34.518	*****							10	13.27	34.513	*****	25.98	203	203	0.0202
19	13.21	34.476	*****							20	13.20	34.478	*****	25.96	204	205	0.0407
28	13.12	34.502	*****							30	13.06	34.503	*****	26.01	200	200	0.0610
47	12.61	34.520	*****							50	12.47	34.507	*****	26.13	189	190	0.1001
71	11.55	34.419	*****							75	10.47	34.360	*****	26.39	164	166	0.1446
85	7.78	34.214	*****							100	4.56	34.152	*****	27.07	099	100	0.1779
103	3.92	34.140	*****							125	2.71	34.095	*****	27.21	087	087	0.2014
124	2.72	34.075	*****							150	2.69	34.110	*****	27.22	085	086	0.2231
169	2.68	34.122	*****							200	1.49	34.161	*****	27.35	072	073	0.2630
209	1.15	34.173	*****							250	0.92	34.194	*****	27.42	066	066	0.2979
249	0.93	34.198	*****							300	0.61	34.038	*****	27.31	076	076	0.3338
308	0.57	34.013	*****														
369	0.30	34.023	*****														

KOREA .JI RI SAN , STATION 102-07 , 36-04.6. N, 130-00.0. E, FEB. 4.1982, 12:00 KST, DEPTH 1390 , COLOR 3, TRANS. 14.0,

WAVE NE 2, SWELL NE 2, WIND NE 3, BARO 1017. , AIR TEMP. DRY 5.3, WET , CLOUD. TYPE NS, AMT 10, WEATHER R ,

0	12.40	34.435	*****							0	12.40	34.435	*****	26.09	193	192	0.0000
10	12.40	34.440	*****							10	12.40	34.440	*****	26.09	192	192	0.0192
20	12.45	34.448	*****							20	12.45	34.448	*****	26.09	193	193	0.0385
30	12.42	34.453	*****							30	12.42	34.453	*****	26.10	192	192	0.0578
45	12.29	34.455	*****							50	12.19	34.455	*****	26.14	187	188	0.0959
74	11.95	34.459	*****							75	11.85	34.457	*****	26.21	181	187	0.1474

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

118	9.48	34.451	*****							125	7.43	34.368	*****	26.89	118	120	0.2184
137	3.94	34.227	*****							150	3.19	34.151	*****	27.21	086	087	0.2443
174	1.81	34.011	*****							200	1.50	34.007	*****	27.23	084	084	0.2874
221	1.25	34.005	*****							250	1.00	34.007	*****	27.26	081	081	0.3289
263	0.89	*****	*****							300	0.78	34.011	*****	27.28	079	079	0.3692
335	0.68	34.015	*****							400	0.54	34.007	*****	27.29	078	078	0.4483
434	0.47	34.003	*****														

KOREA , J1 R1 SAN , STATION 102-08 , 36-04.6. N, 130-18.4. E, FEB. 4.1982, 10:05 KST, DEPTH 1530 , COLOR 4, TRANS. 15.0,
 WAVE NE 2, SWELL NE 2, WIND NE 3, BARO 1019. , AIR TEMP. DRY 5.5, WET , CLOUD. TYPE , AMT , WEATHER R ,

0	12.07	34.451	*****							0	12.07	34.451	*****	26.16	185	185	0.0000
9	12.01	34.444	*****							10	12.01	34.443	*****	26.17	185	185	0.0185
19	12.07	34.441	*****							20	12.06	34.440	*****	26.16	186	186	0.0371
28	12.06	*****	*****							30	12.05	34.433	*****	26.15	186	187	0.0558
47	11.97	34.424	*****							50	11.88	34.422	*****	26.18	184	185	0.0931
70	11.30	*****	*****							75	10.98	34.409	*****	26.33	169	171	0.1376
90	10.03	34.402	*****							100	9.98	34.382	*****	26.49	155	156	0.1786
114	9.92	34.356	*****							125	6.57	34.204	*****	26.87	119	120	0.2133
137	2.93	34.040	*****							150	2.56	34.053	*****	27.18	088	089	0.2396
184	1.62	34.088	*****							200	1.43	34.065	*****	27.28	079	079	0.2820
230	1.10	34.023	*****							250	0.92	34.025	*****	27.28	079	079	0.3218
276	0.70	34.029	*****							300	0.62	34.028	*****	27.30	077	077	0.3611
369	0.42	34.026	*****							400	0.38	34.026	*****	27.32	076	076	0.4378
458	0.33	34.027	*****														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA ,JI RI SAN , STATION 102-09 , 36-04.6. N, 130-36.9. E, FEB. 4.1982, 08:05 KST, DEPTH 1880 , COLOR , TRANS.

WAVE NE 2, SWELL NE 2, WIND NE 4, BARO 1019. , AIR TEMP. DRY 5.5, WET , CLOUD. TYPE , AMT , WEATHER R ,

0	13.03	34.449	*****							0	13.03	34.449	*****	25.97	203	203	0.0000
9	13.02	34.469	*****							10	13.02	34.468	*****	25.99	202	202	0.0202
19	13.04	34.460	*****							20	13.04	34.460	*****	25.98	203	203	0.0405
28	13.07	34.460	*****							30	13.07	34.462	*****	25.98	203	204	0.0609
47	13.07	34.485	*****							50	13.06	34.481	*****	25.99	202	203	0.1016
71	13.01	34.459	*****							75	13.01	34.453	*****	25.98	203	204	0.1526
94	13.04	34.430	*****							100	12.66	34.410	*****	26.02	199	202	0.2035
133	10.62	34.305	*****							125	11.11	34.330	*****	26.25	177	180	0.2513
153	4.95	34.094	*****							150	5.80	34.125	*****	26.90	115	117	0.2884
198	1.62	33.974	*****							200	1.60	33.974	*****	27.20	087	088	0.3398
245	1.31	33.986	*****							250	1.28	33.994	*****	27.24	084	084	0.3829
286	1.12	34.058	*****							300	1.03	34.060	*****	27.31	077	077	0.4234
374	0.59	34.074	*****							400	0.53	*****	*****	*****	***	***	*****
461	0.42	*****	*****														

KOREA ,JI RI SAN , STATION 102-10 , 36-04.6. N, 130-55.1. E, FEB. 4.1982, 06:10 KST, DEPTH 1440 , COLOR , TRANS.

WAVE NE 2, SWELL NE 2, WIND NE 3, BARO 1019. , AIR TEMP. DRY 5.0, WET , CLOUD. TYPE , AMT , WEATHER R ,

0	11.83	34.297	*****							0	11.83	34.297	*****	26.09	192	192	0.0000
10	11.97	34.391	*****							10	11.97	34.391	*****	26.14	188	188	0.0190
20	11.82	34.363	*****							20	11.82	34.363	*****	26.14	187	188	0.0378
30	11.68	34.360	*****							30	11.68	34.360	*****	26.17	185	185	0.0565
49	11.02	34.355	*****							50	11.02	34.357	*****	26.29	174	175	0.0926
74	11.02	34.410	*****							75	11.02	34.409	*****				

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
87	11.02	34.314	*****							100	11.01	34.268	*****	26.22	180	182	0.1804
108	11.01	34.240	*****							125	10.33	34.067	*****	26.18	184	186	0.2265
130	10.14	34.017	*****							150	8.99	34.037	*****	26.38	165	167	0.2708
172	7.74	34.060	*****							200	5.71	34.066	*****	26.87	119	121	0.3430
215	4.63	34.070	*****							250	3.41	34.029	*****	27.09	098	099	0.3982
258	3.14	34.020	*****							300	2.60	34.011	*****	27.15	092	093	0.4465
343	2.06	34.002	*****							400	1.13	*****	*****	*****	***	***	*****
429	0.66	*****	*****														
KOREA , JI RI SAN , STATION 102-11 , 36-04.6. N. 131-13.6. E, FEB. 4.1982, 04:10 KST, DEPTH 1780 , COLOR , TRANS. ,																	
WAVE N 2, SWELL N 2, WIND N 4, BARO 1019.5, AIR TEMP. DRY 5.7, WET , CLOUD. TYPE , AMT , WEATHER R ,																	
0	12.37	34.315	*****							0	12.37	34.315	*****	26.00	201	201	0.0000
10	12.33	34.310	*****							10	12.33	34.310	*****	26.00	200	200	0.0200
20	11.62	34.366	*****							20	11.62	34.366	*****	26.18	184	184	0.0393
30	11.08	34.370	*****							30	11.08	34.370	*****	26.29	174	174	0.0573
50	11.02	34.368	*****							50	11.02	34.368	*****	26.29	173	174	0.0921
75	10.90	34.309	*****							75	10.90	34.309	*****	26.27	175	177	0.1361
91	9.16	34.248	*****							100	8.75	34.197	*****	26.54	149	151	0.1771
106	8.48	34.164	*****							125	7.23	34.116	*****	26.71	134	135	0.2130
125	7.23	34.116	*****							150	5.28	34.054	*****	26.91	115	116	0.2445
172	3.57	34.000	*****							200	1.85	33.958	*****	27.17	090	091	0.2964
193	1.95	33.957	*****							250	1.24	33.970	*****	27.22	085	085	0.3407
240	1.32	33.969	*****							300	0.88	33.978	*****	27.25	082	082	0.3829
326	0.70	33.982	*****							400	0.43	*****	*****	*****	***	***	*****
402	0.43	*****	*****														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-0Y

4月(April)

KOREA ,JI RI SAN , STATION 102-04 , 36-04.6. N, 129-36.9. E, APR. 7.1982, 15:55 KST, DEPTH 52 , COLOR 4, TRANS. 10.9,
WAVE SW 1, SWELL , WIND SW 1, BARO 1009.5, AIR TEMP. DRY 19.2, WET , CLOUD. TYPE CU, AMT 10, WEATHER C ,
0 13.67 34.499 ***** 0 13.67 34.499 ***** 25.88 212 212 0.0000
10 13.57 34.515 ***** 10 13.57 34.515 ***** 25.92 209 209 0.0210
20 13.50 34.514 ***** 20 13.50 34.514 ***** 25.93 208 208 0.0419
30 12.84 34.511 ***** 30 12.84 34.511 ***** 25.91 210 210 0.0629
50 11.53 34.500 ***** 50 11.53 34.500 ***** 26.15 187 188 0.1028

KOREA ,JI RI SAN , STATION 102-05 , 36-04.6. N, 129-41.3. E, APR. 7.1982, 14:55 KST, DEPTH 210 , COLOR 4, TRANS. 11.0,
WAVE SW 1, SWELL , WIND SW 1, BARO 1010. , AIR TEMP. DRY 20.5, WET , CLOUD. TYPE CU, AMT 09, WEATHER C ,
0 13.99 34.543 ***** 0 13.99 34.543 ***** 25.85 215 215 0.0000
10 13.85 34.532 ***** 10 13.85 34.532 ***** 25.87 213 213 0.0214
20 13.70 34.520 ***** 20 13.70 34.520 ***** 25.89 211 211 0.0427
30 13.00 34.480 ***** 30 13.00 34.480 ***** 26.00 201 201 0.0633
50 12.15 34.446 ***** 50 12.15 34.446 ***** 26.14 187 188 0.1023
75 10.72 34.401 ***** 75 10.72 34.401 ***** 26.37 165 167 0.1468
105 9.48 34.209 ***** 100 9.68 34.241 ***** 26.43 160 162 0.1880
132 2.91 34.097 ***** 125 4.61 34.126 ***** 27.04 102 103 0.2213
144 1.01 34.050 ***** 150 0.96 34.048 ***** 27.30 078 077 0.2440
208 0.52 34.034 ***** 200 0.58 34.036 ***** 27.31 076 076 0.2826

KOREA ,JI RI SAN , STATION 102-06 , 36-04.6. N, 129-47.8. E, APR. 7.1982, 13:50 KST, DEPTH 700 , COLOR 4, TRANS. 11.0,
WAVE SW 1, SWELL SW 1, WIND SW 1, BARO 1010.5, AIR TEMP. DRY 19.5, WET , CLOUD. TYPE CU, AMT 09, WEATHER C ,
0 13.85 34.519 ***** 0 13.85 34.519 ***** 25.87 215 215 0.0000

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY
10	13.90	34.542	****							10	13.90	34.542	****	25.87	213	213	0.0214
22	13.85	34.537	****							20	13.85	34.537	****	25.87	213	213	0.0427
33	13.67	34.540	****							30	13.71	34.539	****	25.90	210	211	0.0640
55	12.20	34.461	****							50	12.53	34.478	****	26.10	192	193	0.1044
85	11.25	34.476	****							75	11.56	34.471	****	26.27	175	176	0.1507
114	6.98	34.255	****							100	9.04	34.361	****	26.63	141	143	0.1907
130	4.82	34.100	****							125	5.49	34.148	****	26.96	110	111	0.2226
147	2.31	34.082	****							150	2.22	34.081	****	27.24	084	084	0.2471
203	0.81	34.070	****							200	0.89	34.070	****	27.32	075	075	0.2872
253	0.66	34.063	****							250	0.66	34.063	****	27.33	075	075	0.3249
312	0.53	34.037	****							300	0.55	34.042	****	27.32	076	075	0.3627
370	0.39	34.052	****							400	0.34	34.045	****	27.33	074	074	0.4378
448	0.28	34.036	****														

KOREA , J1 RI SAN , STATION 102-07 , 36-04.6. N, 130-00.0. E, APR. 7.1982, 12:10 KST, DEPTH 1390 , COLOR 3, TRANS. 13.0,
WAVE SW 1, SWELL , WIND SW 1, BARO 1014. , AIR TEMP. DRY 17.0, WET , CLOUD. TYPE NS, AMT 10, WEATHER C ,

0	13.22	34.536	****							0	13.22	34.536	****	26.00	201	200	0.0000
10	13.11	34.552	****							10	13.11	34.552	****	26.04	197	197	0.0199
22	12.85	34.560	****							20	12.89	34.558	****	26.09	193	193	0.0394
33	12.75	34.556	****							30	12.77	34.557	****	26.11	191	191	0.0587
55	11.92	34.517	****							50	12.10	34.525	****	26.21	181	181	0.0960
85	11.15	34.478	****							75	11.40	34.491	****	26.32	171	172	0.1404
114	8.96	34.343	****							100	10.01	34.408	****	26.50	153	155	0.1814
130	7.19	34.238	****							125	7.74	34.270	****	26.76	129	131	0.2172
163	3.36	34.071	****							150	4.86	34.136	****	27.02	104	105	0.2469

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

202	1.50	34.018	*****							200	1.59	34.020	*****	27.23	084	084	0.2944
263	1.00	34.033	*****							250	1.10	34.029	*****	27.28	080	080	0.3356
310	0.65	34.033	*****							300	0.72	34.033	*****	27.30	077	077	0.3752
422	0.39	34.037	*****							400	0.44	34.036	*****	27.32	076	075	0.4518
527	0.26	34.046	*****							500	0.29	34.043	*****	27.34	074	074	0.5267

KOREA , JI RI SAN , STATION 102-08 , 36-04.6. N, 130-18.4. E, APR. 7.1982, 10:00 KST, DEPTH 1530 , COLOR 3, TRANS. 13.0,
 WAVE , SWELL , WIND SW 1, BARO 1014. , AIR TEMP. DRY 15.5, WET , CLOUD. TYPE NS, AMT 10, WEATHER C ,

0	13.04	34.528	*****							0	13.04	34.528	*****	26.03	198	197	0.0000
10	13.01	34.558	*****							10	13.01	34.558	*****	26.06	195	195	0.0196
20	12.93	34.554	*****							20	12.93	34.554	*****	26.08	194	194	0.0391
31	12.90	34.554	*****							30	12.90	34.554	*****	26.08	193	194	0.0585
52	12.47	34.537	*****							50	12.51	34.538	*****	26.15	187	188	0.0968
78	11.14	34.498	*****							75	11.29	34.502	*****	26.35	168	169	0.1416
112	9.85	34.402	*****							100	10.30	34.435	*****	26.47	156	158	0.1826
132	8.47	34.353	*****							125	8.95	34.370	*****	26.65	139	141	0.2201
149	5.54	34.152	*****							150	5.47	34.149	*****	26.96	110	111	0.2518
202	2.11	34.027	*****							200	2.23	34.031	*****	27.19	088	088	0.3018
266	1.35	34.023	*****							250	1.54	34.024	*****	27.24	083	083	0.3450
310	0.97	34.047	*****							300	1.05	34.041	*****	27.29	079	079	0.3858
421	0.43	34.034	*****							400	0.53	34.036	*****	27.32	076	076	0.4635
528	0.29	34.058	*****							500	0.32	34.051	*****	27.34	074	073	0.5384

KOREA , JI RI SAN , STATION 102-09 , 36-04.6. N, 130-36.9. E, APR. 7.1982, 07:50 KST, DEPTH 1880 , COLOR 3, TRANS. 13.0,
 WAVE SE 1, SWELL SE 1, WIND S 1, BARO 1014. , AIR TEMP. DRY 13.7, WET , CLOUD. TYPE NS, AMT 10, WEATHER R ,

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
10	12.77	34.592	*****							10	12.77	34.592	*****	26.14	188	188	0.0190
20	12.75	34.555	*****							20	12.75	34.555	*****	26.11	190	190	0.0379
30	12.68	34.547	*****							30	12.68	34.547	*****	26.12	190	190	0.0570
50	12.57	34.534	*****							50	12.57	34.534	*****	26.13	188	189	0.0950
75	11.79	34.504	*****							75	11.79	34.504	*****	26.26	176	178	0.1411
104	9.75	34.390	*****							100	10.01	34.405	*****	26.50	153	155	0.1828
126	7.96	34.288	*****							125	8.04	34.292	*****	26.75	132	134	0.2191
147	4.25	34.101	*****							150	4.10	34.097	*****	27.07	099	100	0.2484
200	1.76	34.031	*****							200	1.76	34.031	*****	27.23	084	084	0.2947
261	1.18	34.040	*****							250	1.28	34.038	*****	27.27	080	081	0.3362
307	0.83	34.034	*****							300	0.88	34.034	*****	27.29	078	078	0.3761
419	0.44	34.044	*****							400	0.50	34.042	*****	27.32	075	075	0.4532
525	0.28	34.055	*****							500	0.31	34.052	*****	27.34	074	073	0.5278

KOREA .J1 RI SAN , STATION 102-10 , 36-04.6. N, 130-55.1. E. APR. 7.1982, 05:40 KST, DEPTH 1440 , COLOR , TRANS.

, CLOUD. TYPE NS, AMT 10, WEATHER R ,																
WAVE SW	1, SWELL SW	1, WIND SW	1, BARD	1015. , AIR TEMP.	DRY	12.0, WET										
0	11.48	34.476	****				0	11.48	34.476	****	26.29	173	173	0.0000		
10	11.58	34.493	****				10	11.58	34.493	****	26.29	173	173	0.0173		
20	11.58	34.483	****				20	11.58	34.483	****	26.32	171	171	0.0346		
30	11.31	34.487	****				30	11.31	34.487	****	26.33	169	170	0.0516		
50	10.36	34.428	****				50	10.36	34.428	****	26.46	157	158	0.0845		
75	8.98	34.352	****				75	8.98	34.352	****	26.63	141	142	0.1222		
101	7.06	34.257	****				100	7.13	34.241	****	26.82	123	124	0.1557		
130	2.56	****	****				125	3.33	34.160	****	27.20	087	088	0.1823		
163	1.79	34.040	****				150	2.03	34.080	****	27.25	082	083	0.2037		

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

209	1.16	34.035	*****							200	1.26	34.035	*****	27.27	080	080	0.2447
250	0.91	34.044	*****							250	0.91	34.044	*****	27.30	078	078	0.2844
293	0.72	34.041	*****							300	0.71	34.041	*****	27.31	077	076	0.3232
359	0.64	34.047	*****							400	0.44	34.042	*****	27.33	075	075	0.3992
438	0.26	34.038	*****														

KOREA , JI RI SAN , STATION 102-11 , 36-04.6. N, 131-13.6. E, APR. 7.1982, 03:30 KST, DEPTH 1780 , COLOR , TRANS.

WAVE SW 1, SWELL SW 1, WIND SW 2, BARO 1015.5, AIR TEMP. DRY 12.9, WET , CLOUD. TYPE NS, AMT 10, WEATHER R .

0	13.00	34.535	*****							0	13.00	34.535	*****	26.05	196	196	0.0000
10	13.14	34.567	*****							10	13.14	34.567	*****	26.04	197	197	0.0196
20	12.75	34.543	*****							20	12.75	34.543	*****	26.10	191	191	0.0391
30	12.11	*****	*****							30	12.11	34.516	*****	26.21	181	182	0.0578
50	10.86	34.462	*****							50	10.86	34.462	*****	26.40	163	164	0.0925
75	6.57	34.379	*****							75	6.57	34.379	*****	27.00	106	106	0.1264
108	5.75	34.157	*****							100	5.94	34.210	*****	26.95	111	112	0.1538
130	4.83	34.101	*****							125	5.03	34.113	*****	26.99	107	108	0.1814
150	2.60	34.032	*****							150	2.60	34.032	*****	27.17	090	091	0.2064
198	1.39	34.041	*****							200	1.37	34.041	*****	27.27	081	081	0.2496
264	1.02	34.045	*****							250	1.09	34.044	*****	27.29	079	079	0.2898
302	0.77	34.062	*****							300	0.78	34.061	*****	27.32	076	075	0.3286
394	0.47	34.040	*****							400	0.45	34.040	*****	27.32	075	075	0.4043
466	0.29	34.047	*****														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

6月(June)

KOREA ,JI RI SAN , STATION 102-04 , 36-04.6. N, 129-36.9. E, JUN. 9.1982, 19:05 KST, DEPTH 52 , COLOR 3, TRANS. 15.0,

WAVE SW 1, SWELL SW 1, WIND SW 3, BARO 1013. , AIR TEMP. DRY 22.0, WET , CLOUD. TYPE , AMT , WEATHER B ,

0	19.40	34.307	*****							0	19.40	34.307	*****	24.40	353	352	0.0000
10	17.31	34.269	*****							10	17.31	34.269	*****	24.89	306	306	0.0329
20	15.64	34.310	*****							20	15.64	34.310	*****	25.74	225	226	0.0596
30	10.02	34.306	*****							30	10.02	34.306	*****	26.42	161	161	0.0789
48	4.25	34.159	*****														

KOREA ,JI RI SAN , STATION 102-05 , 36-04.6. N, 129-41.3. E, JUN. 9.1982, 18:05 KST, DEPTH 210 , COLOR 3, TRANS. 15.0,

WAVE SW 1, SWELL SW 1, WIND SE 3, BARO 1013.5, AIR TEMP. DRY , WET 24.6, CLOUD. TYPE , AMT , WEATHER B ,

0	20.58	*****	*****							0	20.58	*****	*****	*****	***	***	*****
10	19.55	34.313	*****							10	19.55	34.313	*****	24.37	356	356	*****
20	17.44	34.283	*****							20	17.44	34.283	*****	24.87	308	308	*****
23	14.67	34.390	*****							30	14.51	34.395	*****	25.62	237	237	*****
35	14.41	34.400	*****							50	13.90	34.416	*****	25.77	223	224	*****
55	13.73	34.422	*****							75	11.32	34.374	*****	26.24	178	179	*****
69	13.46	34.431	*****							100	4.25	34.183	*****	27.13	094	095	*****
93	4.90	34.203	*****							125	2.37	34.124	*****	27.26	082	082	*****
119	2.50	34.151	*****							150	1.83	34.099	*****	27.28	079	080	*****
165	1.52	34.084	*****														

KOREA ,JI RI SAN , STATION 102-06 , 36-04.6. N, 129-47.8. E, JUN. 9.1982, 16:50 KST, DEPTH 700 , COLOR 3, TRANS. 18.0,

WAVE SW 1, SWELL SW 1, WIND SE 2, BARO 1014. , AIR TEMP. DRY 29.6, WET , CLOUD. TYPE , AMT , WEATHER B ,

0	20.56	34.507	*****							0	20.56	34.507	*****	24.25	367	367	0.0000
10	19.07	34.452	*****							10	19.07	34.452	*****	24.60	334	334	0.0351

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D DY
20	18.18	34.476	*****							20	18.18	34.476	*****	24.84	311	311	0.0674
30	16.49	34.527	*****							30	16.49	34.527	*****	25.29	269	269	0.0965
50	15.19	34.561	*****							50	15.19	34.561	*****	25.61	238	239	0.1475
75	13.97	34.521	*****							75	13.97	34.521	*****	25.84	216	218	0.2048
99	13.88	34.468	*****							100	13.52	34.459	*****	25.88	212	214	0.2590
111	9.67	34.368	*****							125	5.44	34.207	*****	27.01	105	106	0.2992
136	2.12	34.082	*****							150	1.95	34.079	*****	27.25	082	082	0.3228
201	1.37	34.070	*****							200	1.38	34.070	*****	27.29	079	079	0.3633
232	1.02	34.092	*****							250	0.87	34.086	*****	27.34	074	074	0.4017
283	0.60	34.075	*****							300	0.57	34.076	*****	27.35	073	073	0.4387
351	0.48	34.079	*****							400	0.37	34.078	*****	27.36	072	071	0.5114
436	0.29	34.078	*****														

KOREA , JI RI SAN , STATION 102-07 , 36-04.6. N, 130-00.0. E, JUN. 9.1982, 15:00 KST, DEPTH 1390 , COLOR 3, TRANS. 20.0,

WAVE SW 1, SWELL SW 1, WIND SW 1, BARO 1015. , AIR TEMP. DRY 29.2, WET , CLOUD. TYPE , AMT , WEATHER B ,

0	20.18	34.467	*****							0	20.18	34.467	*****	24.32	360	360	0.0000
10	19.00	34.457	*****							10	19.00	34.457	*****	24.62	332	332	0.0346
20	17.38	34.484	*****							20	17.38	34.484	*****	25.04	292	292	0.0659
30	16.45	34.428	*****							30	16.45	34.428	*****	25.22	275	276	0.0945
49	15.07	34.406	*****							50	15.03	34.405	*****	25.52	247	248	0.1448
73	14.26	34.401	*****							75	14.16	34.400	*****	25.70	229	231	0.2067
85	13.68	34.400	*****							100	12.40	34.385	*****	26.05	196	198	0.2605
105	11.98	34.380	*****							125	7.98	34.276	*****	26.72	132	134	0.3022
148	3.40	34.157	*****							150	3.33	34.154	*****	27.20	087	088	0.3301
										200	1.79	34.090	*****	27.28	080	080	0.3724

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

240	0.96	34.077	*****							250	0.88	34.075	*****	27.33	075	075	0.4115
290	0.60	34.070	*****							300	0.58	34.069	*****	27.34	074	074	0.4488
387	0.45	34.068	*****							400	0.42	34.071	*****	27.35	073	072	0.5223
470	0.30	34.092	*****														

KOREA ,JI RI SAN , STATION 102-08 , 36-04.6. N, 130-18.4. E, JUN. 9.1982, 12:45 KST, DEPTH 1530 , COLOR 3, TRANS. 20.0,

WAVE SW 1, SWELL SW 1, WIND SW 2, BARO 1016. , AIR TEMP. DRY 30.0, WET , CLOUD. TYPE , AMT , WEATHER B ,

0	19.21	34.446	*****							0	19.21	34.446	*****	24.56	338	338	0.0000
10	19.17	34.463	*****							10	19.17	34.463	*****	24.58	336	336	0.0337
20	18.57	34.442	*****							20	18.57	34.442	*****	24.72	323	323	0.0667
30	16.57	34.449	*****							30	16.57	34.449	*****	25.21	276	277	0.0967
49	14.56	34.539	*****							50	14.53	34.539	*****	25.73	226	227	0.1473
73	13.87	34.540	*****							75	13.91	34.541	*****	25.89	212	213	0.2025
88	13.45	34.551	*****							100	12.59	34.517	*****	26.11	196	192	0.2534
128	10.61	34.439	*****							125	10.82	34.447	*****	26.39	164	166	0.2983
157	6.76	34.324	*****							150	7.68	34.351	*****	26.83	122	125	0.3348
201	1.84	34.135	*****							200	1.95	34.139	*****	27.30	077	078	0.3856
252	0.74	34.091	*****							250	0.78	34.092	*****	27.35	073	073	0.4236
288	0.64	34.079	*****							300	0.61	34.081	*****	27.35	073	073	0.4603
377	0.43	34.096	*****							400	0.39	34.089	*****	27.37	071	071	0.5326
463	0.30	34.072	*****														

KOREA ,JI RI SAN , STATION 102-09 , 36-04.6. N, 130-36.9. E, JUN. 9.1982, 10:20 KST, DEPTH 1880 , COLOR 3, TRANS. 17.0,

WAVE NE 1, SWELL NE 1, WIND NE 2, BARO 1016.1, AIR TEMP. DRY 26.0, WET , CLOUD. TYPE , AMT , WEATHER B ,

0	19.00	34.501	*****							0	19.00	34.501	*****	24.65	309	309	0.0000
10	17.96	34.512	*****							10	17.96	34.512	*****	24.92	303	303	0.0316

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
20	17.41	34.492	*****							20	17.41	34.492	*****	25.04	292	292	0.0614
30	16.25	34.518	*****							30	16.25	34.518	*****	25.33	264	265	0.0894
50	15.05	34.523	*****							50	15.05	34.523	*****	25.61	238	239	0.1399
75	14.21	34.515	*****							75	14.21	34.515	*****	25.78	222	223	0.1978
109	12.19	34.390	*****							100	12.72	34.423	*****	26.01	199	202	0.2511
129	11.08	*****	*****							125	11.30	34.392	*****	26.26	176	179	0.2987
158	9.39	34.399	*****							150	9.85	34.397	*****	26.52	151	154	0.3405
203	3.77	34.119	*****							200	4.14	34.137	*****	27.10	096	098	0.4037
250	1.61	34.017	*****							250	1.61	34.017	*****	27.23	084	084	0.4495
307	1.08	34.083	*****							300	1.14	34.074	*****	27.31	077	077	0.4901
419	0.49	34.126	*****							400	0.59	34.118	*****	27.38	070	070	0.5640
518	0.37	34.100	*****							500	0.39	34.104	*****	27.38	070	070	0.6342

KOREA , JI RI SAN , STATION 102-10 , 36-04.6. N, 130-55.1. E, JUN. 9.1982, 08:10 KST, DEPTH 1440 , COLOR 3, TRANS. 16.0,

WAVE NE 1, SWELL NE 1, WIND NE 2, BARO 1015. , AIR TEMP. DRY 22.5, WET , CLOUD. TYPE , AMT , WEATHER B ,

0	18.45	34.501	*****							0	18.45	34.501	*****	24.79	316	315	0.0000
10	17.36	34.504	*****							10	17.36	34.504	*****	25.06	290	290	0.0303
20	16.32	34.499	*****							20	16.32	34.499	*****	25.30	267	267	0.0582
30	13.76	34.512	*****							30	13.76	34.512	*****	25.87	213	213	0.0823
50	12.46	34.519	*****							50	12.46	34.519	*****	26.14	188	188	0.1226
75	10.58	34.458	*****							75	10.58	34.458	*****	26.44	159	160	0.1663
117	8.86	34.364	*****							100	9.55	34.402	*****	26.57	146	148	0.2049
128	7.70	34.290	*****							125	8.01	34.310	*****	26.75	130	132	0.2401
154	4.33	34.143	*****							150	4.84	34.165	*****	27.05	101	103	0.2695
205	1.62	34.050	*****							200	1.88	34.059	*****	27.24	083	083	0.3163

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

260	1.08	34.065	*****							250	1.17	34.062	*****	27.30	078	078	0.3568
299	0.85	34.077	*****							300	0.84	34.077	*****	27.33	075	075	0.3952
406	0.42	34.102	*****							400	0.44	34.100	*****	27.37	071	070	0.4682
514	0.31	34.078	*****							500	0.32	34.081	*****	27.36	072	071	0.5393

KOREA ,JI RI SAN , STATION 102-11 , 36-04.6. N, 131-13.6. E, JUN. 9.1982, 05:50 KST, DEPTH 1780 , COLOR 3, TRANS. 16.0,
 WAVE NE 1. SWELL NE 2, WIND NE 2, BARO 1016. , AIR TEMP. DRY 20.0, WET , CLOUD. TYPE , AMT , WEATHER B ,

0	18.65	34.501	*****							0	18.65	34.501	*****	24.74	320	320	0.0000
10	18.05	34.520	*****							10	18.05	34.520	*****	24.91	305	305	0.0313
20	16.52	34.448	*****							20	16.52	34.448	*****	25.22	275	276	0.0603
30	15.52	34.479	*****							30	15.52	34.479	*****	25.47	251	252	0.0868
50	13.80	34.491	*****							50	13.80	34.491	*****	25.85	215	216	0.1337
75	11.88	34.493	*****							75	11.88	34.493	*****	26.23	179	180	0.1834
105	8.56	34.347	*****							100	9.11	34.371	*****	26.62	142	143	0.2239
136	5.83	34.221	*****							125	6.79	34.265	*****	26.88	117	119	0.2568
154	3.23	34.124	*****							150	3.80	34.145	*****	27.14	092	093	0.2834
212	1.31	34.064	*****							200	1.70	34.076	*****	27.27	080	081	0.3272
262	1.01	34.066	*****							250	1.08	34.065	*****	27.31	077	077	0.3668
316	0.67	34.061	*****							300	0.77	34.062	*****	27.32	075	075	0.4051
421	0.40	34.070	*****							400	0.45	34.068	*****	27.35	073	073	0.4797
525	0.28	34.079	*****							500	0.30	34.076	*****	27.36	072	071	0.5521

8月(August)

KOREA ,JI RI SAN , STATION 102-04 , 36-04.6. N, 129-36.9. E, AUG. 5.1982, 21:05 KST, DEPTH 52 , COLOR , TRANS. ,
 WAVE SW 2. SWELL SW 1. WIND SW 2, BARO 1006. , AIR TEMP. DRY 25.0, WET , CLOUD. TYPE CU, AMT 07, WEATHER BC,
 0 24.38 32.392 ***** 21.58 623 623 0.0000

OBSERVED										INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY	

10	23.11	32.953	*****							10	23.11	32.953	*****	22.37	547	547	0.0585
20	21.36	33.411	*****							20	21.36	33.411	*****	23.20	467	467	0.1093
30	17.25	33.876	*****							30	17.25	33.876	*****	24.61	333	334	0.1494
50	9.77	34.232	*****							50	9.77	34.232	*****	26.41	162	163	0.1992

YORBA .JI RI SAN . STATION 102-05 . 36-04.6. N. 129-41.7. E. AUG. 5.1982. 23:00 KST. DEPTH 210 . COLOR . TRANS.

WAVE SW 2. SWELL SW 1. WIND SW 3. BARO 1006. . AIR TEMP. DRY 25.0. WET . CLOUD. TYPE CU, AMT 09, WEATHER C ,

0	23.96	32.646	*****							0	23.96	32.646	*****	21.89	593	592	0.0000
10	22.80	33.037	*****							10	22.80	33.037	*****	22.52	532	533	0.0542
20	22.54	33.249	*****							20	22.54	33.249	*****	22.76	510	510	0.1084
28	14.18	34.096	*****							30	13.63	34.111	*****	25.59	240	240	0.1460
44	9.83	34.222	*****							50	9.36	34.228	*****	26.47	156	157	0.1858
63	8.36	34.244	*****							75	6.44	34.202	*****	26.88	117	118	0.2203
84	5.00	34.172	*****							100	3.16	34.073	*****	27.15	092	092	0.2467
99	3.20	34.074	*****							125	2.37	34.056	*****	27.20	087	087	0.2693
120	2.50	34.058	*****							150	1.76	34.048	*****	27.25	083	083	0.2906
163	1.45	34.045	*****														

KOREA .JI RI SAN . STATION 102-06 . 36-04.6. N. 129-47.8. E. AUG. 5.1982. 23:05 KST. DEPTH 700 . COLOR . TRANS.

WAVE SW 2. SWELL SW 2. WIND SW 3. BARO 1005. . AIR TEMP. DRY 25.0. WET . CLOUD. TYPE CU, AMT 08, WEATHER C ,

0	23.92	32.777	*****							0	23.92	32.777	*****	22.00	582	582	0.0000
10	23.35	32.877	*****							10	23.35	32.877	*****	22.24	559	559	0.0570
20	22.37	33.462	*****							20	22.37	33.462	*****	22.96	490	490	0.1096
30	12.43	34.205	*****							30	12.43	34.205	*****	25.90	210	210	0.1447
50	9.85	34.247	*****							50	9.85	34.249	*****	26.41	162	163	0.1821
75	4.50	34.156	*****							75	4.50	34.156	*****	27.08	098	099	0.2150

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
105	2.48	34.049	*****							100	2.81	34.066	*****	27.17	089	090	0.2387
133	1.81	34.046	*****							125	2.00	34.046	*****	27.23	085	085	0.2607
149	1.15	34.050	*****							150	1.14	34.050	*****	27.29	079	079	0.2812
174	1.12	34.050	*****							200	0.96	34.041	*****	27.29	078	078	0.3206
210	0.90	34.038	*****							250	0.70	34.042	*****	27.31	077	076	0.3594
247	0.71	34.042	*****							300	0.57	34.045	*****	27.32	076	075	0.3976
319	0.52	34.047	*****							400	0.33	34.043	*****	27.33	074	074	0.4726
400	0.33	34.043	*****														
KOREA , JI RI SAN , STATION 102-07 , 36-04.6, N, 130-00.0, E. AUG. 6, 1982, 00:50 KST, DEPTH 1390 , COLOR , TRANS. ,																	
WAVE SW 2, SWELL SW 2, WIND SW 3, BARO 1005.5, AIR TEMP. DRY 24.9, WET , CLOUD. TYPE , AMT , WEATHER ,																	
0	24.06	32.700	*****							0	24.06	32.700	*****	21.90	592	591	0.0000
10	23.76	34.720	*****							10	23.76	34.720	*****	23.52	437	437	0.0514
20	22.58	32.814	*****							20	22.58	32.814	*****	22.41	543	543	0.1005
30	13.58	34.015	*****							30	13.58	34.015	*****	25.53	246	246	0.1400
50	7.63	34.219	*****							50	7.63	34.219	*****	26.73	132	132	0.1780
75	4.08	34.172	*****							75	4.08	34.172	*****	27.14	093	093	0.2063
100	2.07	34.071	*****							100	2.07	34.071	*****	27.24	083	083	0.2285
123	1.92	34.052	*****							125	1.87	34.051	*****	27.24	083	083	0.2495
148	1.31	34.040	*****							150	1.29	34.040	*****	27.27	080	080	0.2701
202	0.97	34.040	*****							200	0.98	34.040	*****	27.29	078	078	0.3100
259	0.66	34.043	*****							250	0.70	34.042	*****	27.31	077	076	0.3487
309	0.51	34.045	*****							300	0.53	34.044	*****	27.32	075	075	0.3870
406	0.38	34.039	*****							400	0.38	34.039	*****	27.33	075	075	0.4623
507	0.24	34.054	*****							500	0.24	34.052	*****	27.35	073	073	0.5364

OBSERVED										INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY	

KOREA .JI RI SAN , STATION 102-08 , 36-04.6. N, 130-18.4. E, AUG. 6.1982, 03:10 KST, DEPTH 1530 , COLOR , TRANS.

WAVE SW 2, SWELL SW 2, WIND SW 3, BARO 1005. , AIR TEMP. DRY 24.5, WET , CLOUD. TYPE . AMT , WEATHER ,

0	23.83	32.813	*****							0	23.83	32.813	*****	22.06	577	577	0.0000
10	23.71	32.828	*****							10	23.71	32.828	*****	22.10	573	573	0.0575
20	20.67	33.269	*****							20	20.67	33.269	*****	23.28	460	460	0.1092
28	19.29	33.503	*****							30	18.76	33.567	*****	24.00	391	392	0.1818
46	14.52	34.082	*****							50	13.88	34.104	*****	25.53	245	246	0.2157
67	11.20	34.198	*****							75	9.42	34.196	*****	26.44	159	161	0.2667
88	6.53	34.194	*****							100	6.33	34.196	*****	26.89	116	117	0.3015
113	6.12	34.200	*****							125	4.86	34.148	*****	27.03	103	104	0.3293
137	3.60	34.097	*****							150	3.05	34.082	*****	27.17	090	091	0.3538
188	1.47	34.040	*****							200	1.36	34.042	*****	27.27	081	081	0.3969
244	0.98	34.052	*****							250	0.94	34.051	*****	27.30	077	077	0.4367
288	0.69	34.050	*****							300	0.65	34.048	*****	27.32	076	076	0.4751
391	0.42	34.041	*****							400	0.40	34.041	*****	27.33	075	075	0.5506
472	0.27	34.045	*****														

KOREA .JI RI SAN , STATION 102-09 , 36-04.6. N, 130-36.9. E, AUG. 6.1982, 05:25 KST, DEPTH 1880 , COLOR , TRANS.

WAVE SW 1, SWELL SW 1, WIND SW 2, BARO 1006. , AIR TEMP. DRY 24.5, WET , CLOUD. TYPE , AMT 02, WEATHER B ,

0	24.16	32.775	*****							0	24.16	32.775	*****	21.93	589	589	0.0000
10	24.15	34.725	*****							10	24.15	34.725	*****	23.40	448	448	0.0518
20	22.18	32.983	*****							20	22.18	32.983	*****	22.65	520	520	0.1003
30	17.11	33.792	*****							30	17.11	33.792	*****	24.58	336	337	0.1432
50	15.65	34.435	*****							50	15.65	34.435	*****	25.41	257	258	0.2028
75	14.53	34.492	*****							75	14.53	34.492	*****	25.70	230	232	0.2642

OBSERVED						INTERPOLATED				CALCULATED							
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
100	10.95	34.436	*****							100	10.95	34.436	*****	26.36	167	169	0.3143
173	2.26	34.052	*****							125	7.97	34.304	*****	26.75	130	132	0.3520
195	1.72	34.029	*****							150	4.99	34.172	*****	27.04	102	104	0.3816
251	1.16	34.040	*****							200	1.67	34.029	*****	27.24	084	084	0.4288
291	0.85	34.040	*****							250	1.17	34.039	*****	27.28	080	080	0.4699
342	0.66	34.040	*****							300	0.81	34.040	*****	27.30	077	077	0.5093
431	0.36	34.069	*****							400	0.46	34.058	*****	27.34	074	074	0.5853
516	0.32	*****	*****							500	0.32	*****	*****	*****	***	***	*****
KOREA ,JI RI SAN , STATION 102-10 , 36-04.6. N, 130-55.1. E, AUG. 6.1982. 07:45 KST, DEPTH 1440 , COLOR 3, TRANS. 23.0.																	
WAVE SW 2, SWELL SW 1, WIND SW 3, BARO 1007. , AIR TEMP. DRY 28.0, WET , CLOUD. TYPE CG, AMT 08, WEATHER C ,																	
0	24.62	33.276	*****							0	24.62	33.276	*****	22.17	566	566	0.0000
10	23.49	34.182	*****							10	23.49	34.182	*****	23.19	469	469	0.0517
20	19.87	34.231	*****							20	19.87	34.231	*****	24.22	370	370	0.0937
30	17.46	34.293	*****							30	17.46	34.293	*****	24.88	308	308	0.1277
51	15.47	34.412	*****							50	15.56	34.406	*****	25.40	258	259	0.1845
77	14.98	34.418	*****							75	15.01	34.417	*****	25.53	245	247	0.2478
108	10.96	34.441	*****							100	11.99	34.435	*****	26.17	185	187	0.3023
172	2.55	*****	*****							125	8.72	34.356	*****	26.67	137	139	0.3432
199	1.74	34.038	*****							150	5.44	34.231	*****	27.03	103	105	0.3738
250	0.80	34.048	*****							200	1.72	34.038	*****	27.24	083	084	0.4210
306	0.77	*****	*****							250	0.80	34.048	*****	27.31	077	077	0.4613
339	0.63	34.048	*****							300	0.77	34.045	*****	27.31	077	077	0.4998
448	0.40	34.055	*****							400	0.50	34.051	*****	27.33	075	074	0.5758
549	0.28	34.054	*****							500	0.33	34.054	*****	27.34	074	073	0.6500

OBSERVED										INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY	
KOREA .JI RI SAN , STATION 102-11 , 36-04.6. N, 131-13.6. E. AUG. 6.1982, 10:00 KST, DEPTH 1780 , COLOR 3, TRANS. 23.0.																		
WAVE SW 2, SWELL SW 2, WIND SW 3, BARO 1006. , AIR TEMP. DRY 28.0. WET , CLOUD. TYPE CS, AMT 03, WEATHER BC.																		
0	24.55	34.220	*****							0	24.55	34.220	*****	22.90	496	496	0.0000	
10	24.25	34.268	*****							10	24.25	34.268	*****	23.03	484	484	0.0490	
21	22.10	34.327	*****							20	22.29	34.321	*****	23.64	426	426	0.0945	
32	18.27	34.374	*****							30	18.96	34.365	*****	24.56	338	339	0.1328	
56	15.95	34.474	*****							50	16.53	34.449	*****	25.22	275	277	0.1944	
87	14.49	34.435	*****							75	15.05	34.450	*****	25.55	244	245	0.2598	
116	11.79	34.435	*****							100	13.27	34.435	*****	25.91	209	211	0.3171	
143	5.37	34.173	*****							125	9.65	34.347	*****	26.52	152	154	0.3629	
168	3.61	34.103	*****							150	4.87	34.153	*****	27.04	103	104	0.3953	
209	1.68	34.041	*****							200	2.10	34.054	*****	27.22	085	085	0.4428	
240	1.20	34.067	*****							250	1.13	34.061	*****	27.30	078	078	0.4838	
288	0.88	34.040	*****							300	0.83	34.042	*****	27.30	077	077	0.5228	
377	0.51	34.056	*****							400	0.47	34.054	*****	27.33	074	074	0.5989	
488	0.32	34.049	*****															

10月(October)

KOREA .JI RI SAN , STATION 102-04 , 36-04.6. N, 129-36.9. E, OCT. 7.1982, 15:25 KST, DEPTH 52 , COLOR 4, TRANS. 15.0.																	
WAVE SE 1, SWELL SE 1, WIND SE 2, BARO 1012.5, AIR TEMP. DRY 26.0, WET , CLOUD. TYPE , AMT , WEATHER B ,																	
0	21.76	32.708	5.08							0	21.36	32.708	5.08	22.67	518	518	0.0000
10	21.05	32.655	5.18							10	21.05	32.655	5.18	22.72	514	514	0.0516
20	19.47	32.903	5.61							20	19.47	32.903	5.61	23.32	456	457	0.1002
30	14.92	33.696	5.18							30	14.92	33.696	5.18	25.00	296	297	0.1379
50	9.16	34.268	5.32							50	9.16	34.268	5.32	26.53	150	151	0.1827

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA ,JI RI SAM , STATION 102-05 , 36-04.6. N, 129-41.3. E, OCT. 7.1982, 14:35 KST, DEPTH 210 , COLOR 4, TRANS. 16.0.

WAVE SE 1, SWELL SE 1, WIND SE 1, WIND SW 1, BARO 1013. , AIR TEMP. DRY 25.5, WET , CLOUD. TYPE , AMT , WEATHER B ,

0	21.46	32.715	5.14							0	21.46	32.715	5.14	22.65	520	520	0.0000
10	21.46	32.935	5.35							10	21.46	32.935	5.35	22.82	504	504	0.0512
20	20.67	32.896	5.43							20	20.67	32.896	5.43	23.00	487	487	0.1008
27	17.71	33.266	5.22							30	17.10	33.450	5.25	24.32	361	361	0.1433
43	14.46	34.252	5.42							50	11.47	34.271	5.42	26.14	188	189	0.1784
55	9.35	34.286	5.43							75	4.58	34.039	5.25	26.98	108	109	0.2357
66	8.18	*****	5.33							100	1.63	34.063	5.41	27.27	081	081	0.2595
79	2.99	34.038	5.22							125	1.21	34.035	5.60	27.27	080	080	0.2798
96	1.70	34.068	5.38														
141	0.94	34.017	5.73														

KOREA ,JI RI SAM , STATION 102-06 , 36-04.6. N, 129-47.8. E, OCT. 7.1982, 13:50 KST, DEPTH 700 , COLOR 4, TRANS. 16.0.

WAVE SE 1, SWELL SE 1, WIND SE 1, WIND SE 1, BARO 1014. , AIR TEMP. DRY 26.0, WET , CLOUD. TYPE , AMT , WEATHER B ,

0	22.36	32.785	5.08							0	22.36	32.785	5.08	22.45	539	539	0.0000
10	22.24	32.729	5.44							10	22.24	32.729	5.44	22.45	540	540	0.0539
20	22.24	32.778	5.43							20	22.24	32.778	5.43	22.48	536	536	0.1078
30	21.61	33.226	5.42							30	21.61	33.226	5.42	23.00	487	488	0.1590
50	15.40	33.813	5.63							50	15.40	33.813	5.63	24.98	297	299	0.2378
75	13.39	34.408	5.58							75	13.39	34.408	5.58	25.87	213	215	0.3021
105	10.34	*****	5.23							100	10.84	34.178	5.28	26.18	184	186	0.3523
126	7.07	34.254	5.43							125	7.22	34.248	5.42	26.81	124	126	0.3914
144	2.55	34.112	5.53							150	2.38	34.105	5.53	27.24	083	083	0.4176
192	1.20	34.061	5.58							200	1.14	34.061	5.58	27.30	078	078	0.4582

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

244	0.85	34.063	****							250	0.81	34.063	5.60	27.32	076	075	0.4767
288	0.58	34.069	5.63							300	0.55	34.068	5.63	27.34	074	073	0.5341
386	0.37	34.068	5.63							400	0.35	34.074	5.58	27.36	072	072	0.6072
481	0.27	34.111	5.33														

FOPEA , JI RI SAN , STATION 102-07 , 36-04.6. N, 130-00.0. E. OCT. 7.1982, 11:50 KST, DEPTH 1590 , COLOR 3, TRANS. 22.0,
WAVE SE 1, SWELL SE 1, WIND SE 1, BARO 1015. , AIR TEMP. DRY 25.5, WET , CLOUD. TYPE CI, AMT 01, WEATHER B ,

0	22.50	32.770	5.16							0	22.50	32.770	5.16	22.40	544	543	0.0000
10	22.48	32.862	5.43							10	22.48	32.862	5.43	22.48	537	537	0.0540
20	22.60	32.987	5.30							20	22.60	32.987	5.30	22.54	531	531	0.1074
30	21.62	32.999	5.23							30	21.62	32.999	5.23	22.82	504	504	0.1592
50	15.93	34.156	5.56							50	15.93	34.156	5.56	25.13	284	285	0.2383
76	14.08	34.430	5.63							75	14.15	34.419	5.62	25.72	227	229	0.3026
100	11.39	34.453	5.48							100	11.39	34.453	5.48	26.29	173	175	0.3533
112	10.14	34.420	5.47							125	7.32	34.277	5.34	26.82	123	125	0.3909
137	4.72	34.145	5.22							150	4.06	34.124	5.26	27.10	096	098	0.4188
199	1.59	34.045	5.45							200	1.57	34.045	5.45	27.26	082	082	0.4639
246	1.01	34.058	5.84							250	0.98	34.058	5.83	27.31	077	077	0.5039
298	0.67	34.064	5.82							300	0.66	34.064	5.82	27.33	075	074	0.5420
399	0.41	34.076	5.88							400	0.40	34.076	5.87	27.36	072	072	0.6157
494	0.32	34.086	5.74														

KOREA , JI RI SAN , STATION 102-08 , 36-04.6. N, 130-18.4. E, OCT. 7.1982, 09:45 KST, DEPTH 1530 , COLOR 3, TRANS. 20.0,
WAVE SE 1, SWELL SE 1, WIND SE 1, BARO 1015. , AIR TEMP. DRY 24.0, WET , CLOUD. TYPE CI, AMT 05, WEATHER BC,

0	21.93	32.663	5.37							0	21.93	32.663	5.37	22.48	536	536	0.0000
10	21.87	32.681	5.42							10	21.87	32.681	5.42	22.51	533	533	0.0535

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

20	21.58	33.073	5.58							20	21.58	33.073	5.58	22.89	497	498	0.1051
30	21.13	33.120	5.42							30	21.13	33.120	5.42	23.05	482	483	0.1542
50	16.82	34.088	5.72							50	16.82	34.088	5.72	24.87	308	309	0.2335
75	14.84	34.324	5.34							75	14.84	34.324	5.34	25.50	248	250	0.3036
103	12.91	34.413	5.45							100	13.11	34.403	5.43	25.92	208	211	0.3613
123	9.50	34.272	5.62							125	9.10	34.261	5.60	26.54	150	152	0.4067
155	3.12	34.103	5.43							150	4.11	34.129	5.45	27.10	097	098	0.4380
211	1.55	34.078	5.63							200	1.85	34.082	5.59	27.27	081	081	0.4830
251	0.99	34.071	5.73							250	1.00	34.071	5.72	27.32	076	076	0.5226
304	0.67	34.052	5.58							300	0.69	34.053	5.59	27.32	076	075	0.5607
409	0.41	34.035	5.63							400	0.43	34.036	5.62	27.32	075	075	0.6364
514	0.28	34.056	5.82							500	0.29	34.053	5.79	27.34	074	073	0.7109

KOREA .JI RI SAN ; STATION 102-09 ; 36-04.6. N, 130-36.9. E, OCT. 7.1982; 07:15 KST, DEPTH 1880 ; COLOR 3, TRANS. 19.0,
 WAVE SE 1, SWELL SE 1, WIND SE 1, BARG 1015. ; AIR TEMP. DRY 20.8, WET ; CLOUD. TYPE CI, AMT 05, WEATHER BC.
 0 21.44 33.165 5.42 23.00 487 487 0.0000
 10 21.44 33.116 5.53 22.96 491 491 0.0489
 20 20.90 33.172 5.67 23.15 473 473 0.0971
 30 18.11 33.715 5.11 24.28 365 365 0.1391
 50 15.33 34.219 5.55 25.31 266 267 0.2025
 75 14.80 34.349 5.63 25.53 246 248 0.2669
 100 13.17 34.439 5.92 25.84 216 218 0.3253
 125 10.86 34.420 5.73 26.36 166 169 0.3739
 150 4.72 34.138 5.68 27.04 102 103 0.4080
 200 1.76 34.073 5.72 27.26 081 081 0.4544

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

253	1.18	34.051	5.72							250	1.21	34.052	5.72	27.29	0.79	0.79	0.4947
300	0.84	34.044	5.63							300	0.84	34.044	5.63	27.30	0.77	0.77	0.5340
407	0.44	34.071	5.53							400	0.46	34.069	5.53	27.35	0.73	0.73	0.6094
470	0.34	34.063	5.78														

KOREA , JI RI SAN , STATION 102-10 , 36-04.6. N, 130-55.1. E, OCT. 7.1982, 05:30 KST, DEPTH 1440 , COLOR , TRANS. ,

WAVE SE 1, SWELL SE 1, WIND SE 1, BARO 1015. , AIR TEMP. DRY 18.5, WET , CLOUD. TYPE , AMT , WEATHER B ,

0	21.21	33.032	5.22							0	21.21	33.032	5.22	22.96	491	490	0.0000
10	21.50	33.024	5.43							10	21.50	33.024	5.43	22.87	499	499	0.0495
20	21.45	33.018	5.72							20	21.45	33.018	5.72	22.88	498	498	0.0994
30	21.10	33.061	5.43							30	21.10	33.061	5.43	23.01	486	486	0.1487
50	17.31	34.030	5.63							50	17.31	34.030	5.63	24.71	323	325	0.2299
75	14.78	34.286	5.92							75	14.78	34.286	5.92	25.48	250	252	0.3020
83	12.51	34.378	5.53							100	11.31	34.399	5.80	26.27	176	178	0.3558
98	11.50	34.404	5.83							125	8.37	34.297	5.63	26.68	136	138	0.3954
118	9.65	34.363	5.53							150	4.46	34.106	5.87	27.04	102	103	0.4257
145	4.72	34.112	5.92							200	1.94	34.050	5.44	27.23	084	084	0.4728
204	1.74	34.046	5.41							250	1.14	34.035	5.57	27.28	080	080	0.5141
251	1.13	34.035	5.58							300	0.82	34.051	5.56	27.31	077	076	0.5534
340	0.57	34.065	5.56							400	0.40	34.060	5.88	27.34	074	073	0.6286
416	0.36	34.059	5.97														

KOREA , JI RI SAN , STATION 102-11 , 36-04.6. N, 131-13.6. E, OCT. 7.1982, 03:20 KST, DEPTH 1780 , COLOR , TRANS. ,

WAVE SE 1, SWELL SE 1, WIND SE 1, BARO 1015.5, AIR TEMP. DRY 18.0, WET , CLOUD. TYPE , AMT , WEATHER B ,

0	21.05	33.095	5.29							0	21.05	33.095	5.29	23.05	482	482	0.0000
10	21.10	33.063	5.28							10	21.10	33.063	5.28	23.01	484	484	0.0404

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY
20	20.48	33.025	5.43							20	20.48	33.025	5.43	23.15	473	473	0.0963
30	20.65	33.292	5.23							30	20.65	33.292	5.23	23.31	458	458	0.1430
50	20.19	33.482	5.43							50	20.19	33.482	5.43	23.57	432	433	0.2322
60	16.20	34.155	5.62							75	15.34	34.308	5.58	25.38	260	262	0.3192
77	15.23	34.329	5.58							100	14.38	34.329	5.62	25.60	239	241	0.3822
103	14.27	34.330	5.63							125	12.44	34.352	5.82	26.02	199	202	0.4377
121	12.82	34.355	5.82							150	10.07	34.335	5.85	26.43	160	162	0.4834
165	8.66	34.325	5.87							200	4.31	34.131	5.45	27.08	098	100	0.5493
202	4.07	34.120	5.43							250	1.79	34.066	5.81	27.26	082	082	0.5952
251	1.75	34.065	5.82							300	1.21	34.080	5.85	27.31	077	077	0.6352
334	0.85	34.092	5.88														
365	0.44	34.063	5.92														

12月(December)

KOREA .JI RI SAN . STATION 102-04 , 36-04.6. N, 129-36.9. E, DEC.16.1982. 10:10 KST, DEPTH 52 , COLOR 3, TRANS. 12.0,
WAVE SW 1. SWELL SW 1. WIND SW 1. BARO 1026. , AIR TEMP. DRY 6.8, WET . CLOUD. TYPE NS, AMT 10, WEATHER C ,
0 14.72 34.194 5.68 25.43 255 255 0.0000
10 14.78 34.189 5.95 25.41 257 257 0.0256
20 14.82 34.178 6.00 25.39 259 259 0.0515
30 13.12 34.160 5.67 25.73 226 227 0.0758
50 11.40 34.156 5.95 26.06 195 196 0.1182

KOREA .JI RI SAN , STATION 102-05 , 36-04.6. N, 129-41.3. E, DEC.16.1982, 10:55 KST, DEPTH 210 , COLOR 3, TRANS. 14.0,
WAVE SW 1. SWELL SW 1. WIND SW 1, BARO 1025. , AIR TEMP. DRY 9.0, WET . CLOUD. TYPE NS, AMT 10, WEATHER C ,
0 16.52 34.323 5.72 25.12 284 284 0.0000

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
10	16.62	34.332	6.09							10	16.62	34.332	6.09	25.11	286	286	0.0285
20	16.61	34.316	6.00							20	16.61	34.316	6.00	25.10	287	287	0.0572
30	15.21	34.093	5.78							30	15.53	34.144	5.83	25.21	276	277	0.0855
54	13.94	34.095	6.00							50	14.18	34.094	5.95	25.46	252	253	0.1385
81	7.48	34.100	5.72							75	8.91	34.058	5.78	26.44	159	160	0.1902
98	3.09	34.108	5.49							100	3.08	34.106	5.51	27.18	089	089	0.2215
130	2.98	34.086	5.82							125	2.99	34.089	5.76	27.18	089	090	0.2440
164	1.21	34.059	5.82							150	1.93	34.070	5.82	27.25	082	083	0.2657
200	0.78	34.065	5.70							200	0.98	34.065	5.70	27.31	076	076	0.3057

KOREA , JI RI SAN , STATION 102-06 , 36-04.6. N, 129-47.8. E, DEC.16.1982, 11:50 KST, DEPTH 700 , COLOR 3, TRANS. 18.0,

WAVE SW 1, SWELL SW 1, WIND SW 2, BARO 1024. , AIR TEMP. DRY 10.0, WET , CLOUD. TYPE NS, AMT 10, WEATHER C ,

0	16.61	34.272	5.60							0	16.61	34.272	5.60	25.06	290	290	0.0000
12	16.56	34.287	5.51							10	16.56	34.284	5.52	25.08	288	288	0.0289
23	16.61	34.278	5.69							20	16.59	34.280	5.64	25.07	289	289	0.0578
35	15.94	34.238	5.59							30	16.21	34.254	5.63	25.14	283	283	0.0865
57	14.47	34.229	5.61							50	14.93	34.231	5.60	25.41	257	258	0.1408
88	9.59	34.067	6.05							75	11.63	34.134	5.86	26.00	201	202	0.1985
114	5.67	34.080	5.71							100	7.78	34.073	5.89	26.59	144	146	0.2421
137	2.23	34.087	5.72							125	4.02	34.083	5.71	27.07	099	100	0.2730
148	1.32	34.080	6.00							150	1.30	34.079	5.99	27.30	077	077	0.2953
194	0.87	34.063	5.81							200	0.83	34.061	5.77	27.32	076	076	0.3338
247	0.55	34.054	5.54							250	0.54	34.054	5.54	27.33	075	074	0.3715
298	0.43	34.058	5.64							300	0.42	34.058	5.63	27.34	074	073	0.4087
390	0.36	34.058	5.60							400	0.35	34.058	5.61	27.34	073	073	0.4824

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA : JI RI SAN , STATION 102-07 , 36-04.6. N, 130-00.0. E, DEC.16.1982, 13:25 KST, DEPTH 1390 , COLOR 3, TRANS. 15.0, WAVE , SWELL , WIND SE 3, BARO 1022. , AIR TEMP. DRY 10.6, WET , CLOUD. TYPE NS, AMT 10, WEATHER C .																	
0	16.31	34.058	5.59							0	16.31	34.058	5.59	24.97	299	299	0.0000
10	16.40	34.053	5.80							10	16.40	34.053	5.80	24.94	301	301	0.0300
20	16.19	34.160	5.30							20	16.19	34.160	5.30	25.07	289	289	0.0576
30	15.48	34.160	5.68							30	15.48	34.160	5.68	25.23	274	274	0.0878
53	15.17	34.157	5.58							50	15.21	34.157	5.59	25.29	268	269	0.1423
90	12.43	34.275	5.72							75	13.54	34.239	5.66	25.71	229	230	0.2049
128	7.44	34.276	5.80							100	11.11	34.290	5.74	26.22	180	182	0.2566
153	4.95	34.151	5.72							125	7.83	34.277	5.79	26.75	130	132	0.2960
172	2.35	34.092	5.89							150	5.24	34.166	5.72	27.00	106	107	0.3260
222	1.35	34.068	5.85							200	1.79	34.078	5.86	27.27	081	081	0.3733
266	0.81	34.065	5.75							250	1.00	34.066	5.78	27.31	076	077	0.4129
320	0.50	34.070	5.62							300	0.61	34.068	5.66	27.34	074	074	0.4508
395	0.37	34.070	5.75							400	0.36	34.069	5.75	27.35	073	072	0.5242
478	0.32	34.059	5.84														
KOREA : JI RI SAN : STATION 102-08 , 36-04.6. N, 130-18.4. E, DEC.16.1982, 15:35 KST, DEPTH 1530 , COLOR 3, TRANS. 13.0, WAVE , SWELL SW 1, WIND SW 3, BARO 1020. , AIR TEMP. DRY 10.7, WET , CLOUD. TYPE , AMT , WEATHER ,																	
0	16.40	34.014	5.75							0	16.40	34.014	5.75	24.91	304	304	0.0000
10	16.45	34.012	5.61							10	16.45	34.012	5.61	24.90	306	306	0.0305
20	16.50	34.008	5.72							20	16.50	34.008	5.72	24.89	307	307	0.0612
30	16.57	34.159	5.51							30	16.57	34.159	5.51	24.98	297	298	0.0915
55	15.68	34.217	5.51							50	16.01	34.205	5.51	25.15	282	283	0.1497
97	15.01	34.264	5.91							75	15.46	34.239	5.70	25.30	268	269	0.2189

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

120	11.28	34.300	5.85							100	14.52	34.268	5.90	25.53	246	248	0.2838
144	8.82	34.322	5.85							125	10.76	34.304	5.85	26.29	173	176	0.3369
180	5.24	34.165	5.75							150	8.22	34.295	5.83	26.70	134	136	0.3761
211	2.94	34.083	5.91							200	3.75	34.112	5.85	27.12	094	096	0.4344
243	1.58	34.056	5.95							250	1.50	34.058	5.93	27.27	080	081	0.4787
286	1.13	34.070	5.83							300	1.03	34.068	5.82	27.31	076	077	0.5183
370	0.58	34.063	****							400	0.50	34.064	5.76	27.34	074	073	0.5938
451	0.38	34.066	5.75														

KOREA .JI RI SAN , STATION 102-09 , 36-04.6. N, 130-36.9. E, DEC.16.1982, 17:40 KST, DEPTH 1880 , COLOR , TRANS. ,

WAVE , SWELL SW 1, WIND SW 3, BARO 1019. , AIR TEMP. DRY 0.0, WET , CLOUD. TYPE , AMT 10, WEATHER C ,

0	15.77	34.035	5.75							0	15.77	34.035	5.75	25.07	289	289	0.0000
10	15.84	34.040	5.86							10	15.84	34.040	5.86	25.06	290	290	0.0290
20	15.89	34.046	5.83							20	15.89	34.046	5.83	25.05	291	291	0.0581
30	15.88	34.031	5.92							30	15.88	34.031	5.92	25.04	292	292	0.0873
54	15.88	34.052	5.82							50	15.88	34.048	5.83	25.06	290	292	0.1458
93	14.07	34.359	5.49							75	14.90	34.217	5.64	25.40	258	259	0.2148
110	12.88	34.492	5.65							100	13.56	34.413	5.53	25.84	217	219	0.2747
125	11.01	34.463	5.90							125	11.01	34.463	5.90	26.37	166	168	0.3232
149	10.74	34.455	5.90							150	10.74	34.454	5.89	26.41	162	165	0.3649
199	10.75	34.441	5.85							200	10.58	34.432	5.85	26.42	161	165	0.4476
229	5.70	34.187	6.05							250	4.74	34.153	5.99	27.05	101	104	0.5149
288	3.03	34.092	5.90							300	2.59	34.081	5.87	27.21	087	088	0.5630
323	1.77	34.062	5.82							400	0.98	34.074	5.82	27.32	076	076	0.6454
463	0.35	34.084	5.82														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY

KOREA ,JI RI SAN , STATION 102-10 , 36-04.6. N, 130-55.1. E, DEC.16.1982, 19:50 KST, DEPTH 1440 , COLOR , TRANS. ,
 WAVE , SWELL SW 1, WIND SW 4, BARO 1018. , AIR TEMP. DRY 11.0, WET , CLOUD. TYPE , AMT , WEATHER C ,

0	15.53	33.890	5.71							0	15.53	33.890	5.71	25.01	295	294	0.0000
10	15.60	33.897	5.84							10	15.60	33.897	5.84	25.00	296	296	0.0295
18	15.63	33.897	5.79							20	15.63	33.899	5.78	25.00	296	296	0.0591
27	15.64	33.909	*****							30	15.64	33.906	5.73	25.00	296	296	0.0888
45	15.65	33.896	*****							50	15.65	33.896	5.64	24.99	297	298	0.1483
64	15.65	33.896	5.59							75	15.17	34.051	5.46	25.22	275	277	0.2203
90	14.53	34.263	5.29							100	13.92	34.319	5.87	25.69	230	233	0.2841
95	14.38	34.277	5.94							125	12.01	34.484	5.67	26.20	182	185	0.3364
120	12.10	34.487	5.62							150	11.57	34.474	5.96	26.28	175	178	0.3818
171	11.20	34.465	6.21							200	10.94	34.449	6.10	26.37	166	170	0.4690
209	10.86	34.445	*****							250	8.33	34.311	5.92	26.70	135	139	0.5463
251	8.27	34.308	5.92							300	4.65	34.186	6.01	27.09	098	101	0.6064
337	1.92	34.094	6.08							400	1.20	34.066	*****	27.30	078	078	0.6962
427	0.90	34.055	*****														

KOREA ,JI RI SAN , STATION 102-11 , 36-04.6. N, 131-13.6. E, DEC.16.1982, 21:55 KST, DEPTH 1780 , COLOR , TRANS. ,
 WAVE SW 2, SWELL SW 2, WIND NW 4, BARO 1018. , AIR TEMP. DRY 10.8, WET , CLOUD. TYPE , AMT , WEATHER C ,

0	15.43	33.882	5.62							0	15.43	33.882	5.62	25.03	293	293	0.0000
10	15.53	33.865	6.00							10	15.53	33.865	6.00	25.00	296	296	0.0295
20	15.57	33.869	5.90							20	15.53	33.869	5.90	25.00	296	296	0.0591
30	15.52	33.858	5.80							30	15.52	33.858	5.80	24.99	297	297	0.0889
50	15.52	33.869	5.52							50	15.52	33.869	5.52	25.00	296	297	0.1484
75	15.51	33.860	5.69							75	15.51	33.860	5.69	25.00	296	298	0.2229

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
102	14.43	34.287	5.48							100	14.51	34.255	5.49	25.52	247	249	0.2914
152	11.37	34.457	5.80							125	13.02	34.365	5.67	25.91	209	212	0.3492
169	11.07	34.468	5.80							150	11.49	34.450	5.78	26.27	175	178	0.7982
218	10.17	34.390	*****							200	10.50	34.418	5.93	26.43	160	164	0.4841
268	4.29	34.126	6.20							250	6.40	34.221	6.13	26.90	115	119	0.3551
325	2.20	34.060	6.02							300	3.11	34.088	6.09	27.16	090	092	0.6080
419	0.80	34.043	5.73							400	1.08	34.046	5.78	27.29	078	079	0.6938
522	0.50	34.064	5.84							500	0.56	34.059	5.81	27.33	074	074	0.7708

209線 海洋觀測 成績

Oceanographic Data. Line 209

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

2月(February)

KOREA ,JI RI SAN , STATION 209-04 , 35-47.3. N, 129-32.8. E, FEB. 9.1982, 10:15 KST, DEPTH 64 , COLOR 4, TRANS. 13.0,
WAVE N 1, SWELL N 1, WIND NW 3, BARO 1029. , AIR TEMP. DRY 6.5, WET , CLOUD. TYPE CI, AMT O2, WEATHER B ,
0 12.19 34.482 ***** 0 12.19 34.482 ***** 26.16 185 185 0.0000
10 12.19 34.481 ***** 10 12.19 34.481 ***** 26.16 185 185 0.0185
20 12.23 34.496 ***** 20 12.23 34.496 ***** 26.17 185 185 0.0371
30 12.20 34.503 ***** 30 12.20 34.503 ***** 26.18 184 184 0.0556
50 10.94 34.405 ***** 50 10.94 34.405 ***** 26.34 169 170 0.0911
60 9.49 34.355 *****

KOREA ,JI RI SAN , STATION 209-05 , 35-45.4. N, 129-38.4. E, FEB. 9.1982, 11:05 KST, DEPTH 150 , COLOR 3, TRANS. 14.0,
WAVE N 1, SWELL N 2, WIND NW 3, BARO 1028. , AIR TEMP. DRY 5.5, WET , CLOUD. TYPE CI, AMT O2, WEATHER B ,
0 12.56 34.489 ***** 0 12.56 34.489 ***** 26.10 192 191 0.0000
10 12.63 34.485 ***** 10 12.63 34.485 ***** 26.08 193 193 0.0192
20 12.63 34.485 ***** 20 12.63 34.485 ***** 26.08 193 193 0.0386
30 12.67 34.481 ***** 30 12.67 34.481 ***** 26.07 194 195 0.0580
50 12.67 34.483 ***** 50 12.67 34.483 ***** 26.07 194 195 0.0971
75 12.62 34.482 ***** 75 12.62 34.482 ***** 26.08 193 195 0.1460
99 9.43 34.321 ***** 100 9.20 34.310 ***** 26.56 148 149 0.1891
120 4.74 34.109 ***** 125 4.19 34.087 ***** 27.06 101 101 0.2205
140 2.54 34.022 *****

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
FOREA .J1 RI SAN , STATION 209-06 , 35-41.3. N, 129-49.0. E. FEB. 9.1982. 12:25 KST, DEPTH 250 , COLOR 3, TRANS. 14.0.																	
WAVE W 1, SWELL W 2, WIND W 3, BARO 1026.5, AIR TEMP. DRY 6.3, WET , CLOUD. TYPE CI, AMT 04, WEATHER BC,																	
0	12.50	34.455	*****							0	12.50	34.455	*****	26.08	193	193	0.0000
10	12.46	34.480	*****							10	12.46	34.480	*****	26.11	190	190	0.0191
20	12.49	34.430	*****							20	12.49	34.480	*****	26.11	191	191	0.0383
30	12.49	*****	*****							30	12.49	34.463	*****	26.09	192	193	0.0575
50	12.49	34.429	*****							50	12.49	34.429	*****	26.07	195	196	0.0964
75	12.49	34.480	*****							75	12.49	34.480	*****	26.11	191	192	0.1451
86	11.30	34.480	*****							100	11.28	34.477	*****	26.33	169	171	0.1907
106	11.28	34.476	*****							125	9.54	34.421	*****	26.59	145	147	0.2306
127	9.36	34.416	*****							150	9.16	34.326	*****	26.58	146	148	0.2676
169	9.00	34.253	*****							200	4.17	34.164	*****	27.07	099	101	0.3302
210	2.62	34.056	*****														
FOREA .J1 RI SAN , STATION 209-07 , 35-36.8. N, 130-00.3. E. FEB. 9.1982. 13:45 KST, DEPTH 250 , COLOR 3, TRANS. 14.0.																	
WAVE W 1, SWELL W 2, WIND W 4, BARO 1025. , AIR TEMP. DRY 6.7, WET , CLOUD. TYPE CI, AMT 03, WEATHER BC,																	
0	12.23	34.476	*****							0	12.23	34.476	*****	26.15	186	186	0.0000
10	12.16	34.474	*****							10	12.16	34.474	*****	26.16	185	185	0.0186
20	12.15	34.466	*****							20	12.15	34.466	*****	26.16	186	186	0.0372
30	12.14	34.490	*****							30	12.14	34.490	*****	26.18	184	184	0.0557
49	12.09	34.467	*****							50	12.08	34.467	*****	26.17	185	185	0.0928
74	12.07	34.474	*****							75	12.06	34.473	*****	26.18	184	185	0.1392
86	12.02	34.462	*****							100	10.07	34.343	*****	26.44	159	161	0.1826
104	9.52	34.309	*****							125	8.05	34.254	*****	26.70	135	137	0.2199
127	7.91	34.249	*****							150	4.87	34.132	*****	27.02	104	105	0.2503

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY
167	2.63	34.047	*****							200	1.83	34.027	*****	27.22	085	085	0.2982
208	1.64	34.023	*****														
KOREA ,JI RI SAN , STATION 209-08 , 35-30.8. N, 130-16.9. E, FEB. 9.1982, 15:35 KST, DEPTH 200 , COLOR 3, TRANS. 14.0, WAVE SW 1, SWELL SW 2, WIND SW 4, BARO 1024. , AIR TEMP. DRY 7.5, WET , CLOUD. TYPE CI, AMT 03, WEATHER BC,																	
0	13.10	34.501	*****							0	13.10	34.501	*****	26.00	201	201	0.0000
10	13.07	34.519	*****							10	13.07	34.519	*****	26.02	199	199	0.0200
20	13.04	34.506	*****							20	13.04	34.506	*****	26.02	199	200	0.0400
30	13.03	34.539	*****							30	13.03	34.539	*****	26.04	197	197	0.0598
49	13.03	34.514	*****							50	13.02	34.514	*****	26.03	199	200	0.0996
74	13.02	34.528	*****							75	12.94	34.527	*****	26.05	196	198	0.1494
87	12.07	34.523	*****							100	10.76	34.518	*****	26.46	157	159	0.1941
106	10.16	34.516	*****							125	8.67	34.511	*****	26.80	125	127	0.2300
124	8.81	34.512	*****							150	5.41	34.504	*****	27.25	082	084	0.2565
164	3.59	34.500	*****														
KOREA ,JI RI SAN , STATION 209-09 , 35-24.4. N, 130-33.5. E, FEB. 9.1982, 17:25 KST, DEPTH 150 , COLOR 3, TRANS. 13.0, WAVE SW 1, SWELL SW 2, WIND SW 4, BARO 1023.5, AIR TEMP. DRY 6.8, WET , CLOUD. TYPE CU, AMT 02, WEATHER B ,																	
0	12.58	34.489	*****							0	12.58	34.489	*****	26.09	192	192	0.0000
10	12.72	34.488	*****							10	12.72	34.488	*****	26.07	195	195	0.0193
20	12.60	34.488	*****							20	12.60	34.488	*****	26.09	192	193	0.0387
30	12.50	34.494	*****							30	12.50	34.494	*****	26.11	190	191	0.0579
49	11.62	34.492	*****							50	11.61	34.491	*****	26.28	174	175	0.0946
74	11.42	34.484	*****							75	11.35	34.484	*****	26.32	170	172	0.1380
86	10.65	34.494	*****							100	10.31	34.482	*****	26.51	153	154	0.1789
105	10.20	34.479	*****							125	10.17	34.484	*****	26.57	150	152	0.2174
125	10.17	34.484	*****														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	U DY

KOREA , JI RI SAN , STATION 209-10 , 35-17.8. N, 130-50.0. E, FEB. 9.1982, 19:15 KST, DEPTH 140 , COLOR 3, TRANS. 14.0,

WAVE SW 1, SWELL SW 2, WIND SW 5, BARO 1024. , AIR TEMP. DRY 7.5, WET , CLOUD. TYPE CU, AMT 05, WEATHER BC,

0	12.63	34.492	*****							0	12.63	34.492	*****	26.09	193	192	0.0000
10	12.64	34.490	*****							10	12.64	34.490	*****	26.08	193	193	0.0197
20	12.64	34.514	*****							20	12.64	34.514	*****	26.10	191	191	0.0385
30	12.66	34.501	*****							30	12.66	34.501	*****	26.09	193	193	0.0578
50	12.65	34.501	*****							50	12.65	34.501	*****	26.09	192	193	0.0965
75	12.66	34.486	*****							75	12.66	34.486	*****	26.08	194	195	0.1452
87	12.53	34.465	*****							100	11.66	34.397	*****	26.20	182	184	0.1928
107	11.20	34.361	*****							125	9.69	34.301	*****	26.47	156	158	0.2357
126	9.61	34.298	*****														

KOREA , JI RI SAN , STATION 209-11 , 35-11.4. N, 131-06.6. E, FEB. 9.1982, 21:05 KST, DEPTH 140 , COLOR , TRANS. ,

WAVE SW 1, SWELL SW 2, WIND SW 5, BARO 1024. , AIR TEMP. DRY 7.5, WET , CLOUD. TYPE CU, AMT 05, WEATHER BC,

0	12.58	34.466	*****							0	12.58	34.466	*****	26.08	194	193	0.0000
10	12.65	34.513	*****							10	12.65	34.513	*****	26.10	191	191	0.0192
20	12.64	34.472	*****							20	12.64	34.472	*****	26.07	194	195	0.0386
30	12.62	34.453	*****							30	12.62	34.453	*****	26.06	195	196	0.0582
50	12.62	34.480	*****							50	12.62	34.480	*****	26.08	193	194	0.0973
75	12.62	34.479	*****							75	12.62	34.479	*****	26.08	193	195	0.1460
84	12.62	34.477	*****							100	12.62	34.464	*****	26.07	194	197	0.1951
106	12.62	34.460	*****														
117	12.61	34.471	*****														

OBSERVED										INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY	

4 月(April)

KOREA ,JI RI SAN , STATION 209-04 , 35-47.3. N, 129-32.8. E, APR. 8.1982, 12:40 KST, DEPTH 64 , COLOR 5, TRANS. 6.0,
 WAVE SW 1, SWELL , WIND SE 1, BARO 1008. , AIR TEMP. DRY 19.7, WET , CLOUD. TYPE AS, AMT 07, WEATHER BC,
 0 12.73 34.433 ***** 0 12.73 34.433 ***** 26.02 199 199 0.0000
 10 12.38 34.406 ***** 10 12.38 34.406 ***** 26.07 194 194 0.0196
 20 12.28 34.390 ***** 20 12.28 34.390 ***** 26.08 194 194 0.0391
 30 12.23 34.424 ***** 30 12.23 34.424 ***** 26.11 190 191 0.0584
 50 11.79 34.416 ***** 50 11.79 34.416 ***** 26.19 183 184 0.0959
 60 10.51 34.394 *****

KOREA ,JI RI SAN , STATION 209-05 , 35-45.4. N, 129-38.4. E, APR. 8.1982, 13:40 KST, DEPTH 165 , COLOR 5, TRANS. 8.0,
 WAVE SE 1, SWELL SE 1, WIND SE 1, BARO 1007. , AIR TEMP. DRY 19.2, WET , CLOUD. TYPE AS, AMT 08, WEATHER C ,
 0 13.72 34.491 ***** 0 13.72 34.491 ***** 25.87 214 213 0.0000
 10 13.17 34.501 ***** 10 13.17 34.501 ***** 25.90 202 202 0.0208
 20 13.22 34.483 ***** 20 13.22 34.483 ***** 25.96 204 205 0.0412
 30 12.71 34.410 ***** 30 12.71 34.410 ***** 26.01 200 201 0.0615
 50 11.54 34.433 ***** 50 11.54 34.433 ***** 26.25 177 178 0.0995
 75 11.28 34.409 ***** 75 11.28 34.409 ***** 26.28 174 176 0.1438
 92 7.69 34.300 ***** 100 6.62 34.260 ***** 26.90 115 116 0.1804
 125 3.28 34.136 ***** 125 3.28 34.136 ***** 27.19 088 089 0.2062
 160 0.86 34.059 ***** 150 1.55 34.081 ***** 27.29 079 079 0.2273

KOREA ,JI RI SAN , STATION 209-06 , 35-41.3. N, 129-45.0. E, APR.12.1982, 07:50 KST, DEPTH 250 , COLOR 4, TRANS. 14.0,
 WAVE SW 1, SWELL SW 2, WIND SW 2, BARO 1020. , AIR TEMP. DRY 14.0, WET , CLOUD. TYPE AS, AMT 08, WEATHER C ,
 0 14.63 34.539 ***** 0 14.63 34.539 ***** 25.71 228 228 0.0000

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
10	14.50	34.555	*****							10	14.50	34.555	*****	25.75	225	225	0.0226
20	14.60	34.561	*****							20	14.60	34.561	*****	25.75	226	226	0.0452
30	14.39	34.543	*****							30	14.39	34.543	*****	25.77	223	224	0.0678
50	12.63	34.507	*****							50	12.63	34.507	*****	26.10	192	192	0.1095
75	9.25	34.351	*****							75	9.25	34.351	*****	26.59	145	147	0.1520
100	3.58	34.153	*****							100	4.18	34.174	*****	27.13	094	095	0.1823
125	1.70	34.087	*****							125	1.98	34.097	*****	27.27	081	081	0.2043
150	1.20	34.076	*****							150	1.33	34.079	*****	27.30	078	078	0.2243
180	0.86	34.057	*****							200	0.74	34.060	*****	27.32	075	075	0.2627
200	0.53	34.067	*****														

FOREA , JI RI SAN , STATION 209-07 , 35-36.8. N. 130-00.3. E. APR.12.1982, 09:25 KST, DEPTH 250 , COLOR 3, TRANS. 13.0,

WAVE SW 1, SWELL SW 2, WIND SW 2, BARO 1020. , AIR TEMP. DRY 14.1, WET , CLOUD. TYPE AS, AMT 02, WEATHER B ,

0	14.70	34.550	*****							0	14.70	34.550	*****	25.70	229	229	0.0000
10	14.60	34.569	*****							10	14.60	34.569	*****	25.74	226	226	0.0227
20	14.50	34.581	*****							20	14.50	34.581	*****	25.77	223	223	0.0452
30	14.38	34.547	*****							30	14.38	34.547	*****	25.77	223	223	0.0675
50	14.35	34.556	*****							50	14.35	34.556	*****	25.78	221	222	0.1122
75	13.55	34.508	*****							75	13.55	34.508	*****	25.91	209	211	0.1665
106	12.43	34.462	*****							100	12.64	34.470	*****	26.07	195	197	0.2175
134	11.19	34.411	*****							125	11.58	34.427	*****	26.24	178	181	0.2649
159	2.28	34.059	*****							150	5.48	34.185	*****	26.99	107	109	0.3012
201	1.28	34.059	*****							200	1.61	34.059	*****	27.26	081	081	0.3489
248	0.73	34.058	*****														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY

KOREA ,JI RI SAN , STATION 209-08 , 35-30.8. N, 130-16.9. E, APR.12.1982, 11:30 KST, DEPTH 200 , COLOR 3, TRANS. 10.0,

WAVE SW 1. SWELL SW 2, WIND SW 2, BARO 1020. , AIR TEMP. DRY 15.5, WET , CLOUD. TYPE CI, AMT 04, WEATHER BC,

0	13.79	34.553	*****							0	13.79	34.553	*****	25.90	210	210	0.0000
10	13.14	34.550	*****							10	13.14	34.550	*****	26.03	198	198	0.0204
20	12.48	34.541	*****							20	12.48	34.541	*****	26.15	186	186	0.0397
30	12.48	34.544	*****							30	12.48	34.544	*****	26.16	186	186	0.0584
48	12.15	34.552	*****							50	12.14	34.551	*****	26.23	179	180	0.0951
77	12.05	34.543	*****							75	12.05	34.543	*****	26.24	178	180	0.1403
95	11.92	34.521	*****							100	11.47	34.497	*****	26.31	171	173	0.1845
124	9.75	34.386	*****							125	9.10	34.374	*****	26.63	141	144	0.2243
148	3.47	34.108	*****							150	3.38	34.107	*****	27.15	091	092	0.2539
198	1.42	34.083	*****														

KOREA ,JI RI SAN , STATION 209-09 , 35-24.4. N, 130-33.5. E, APR.12.1982, 13:35 KST, DEPTH 150 , COLOR 3, TRANS. 10.0,

WAVE SW 1. SWELL SW 2, WIND SW 2, BARO 1019. , AIR TEMP. DRY 15.0, WET , CLOUD. TYPE CI, AMT 04, WEATHER BC,

0	13.15	34.547	*****							0	13.15	34.547	*****	26.03	198	198	0.0000
10	12.03	34.527	*****							10	12.03	34.527	*****	26.23	179	179	0.0189
20	12.15	34.542	*****							20	12.15	34.542	*****	26.22	180	180	0.0369
30	11.88	34.528	*****							30	11.88	34.528	*****	26.26	176	177	0.0548
50	11.79	34.528	*****							50	11.79	34.528	*****	26.28	175	176	0.0901
75	11.76	34.511	*****							75	11.76	34.511	*****	26.27	175	177	0.1343
99	10.85	34.466	*****							100	10.76	34.461	*****	26.41	162	164	0.1769
130	8.19	34.320	*****							125	8.61	34.343	*****	26.68	136	138	0.2148
148	2.37	34.328	*****														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	W	P	TOTAL P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAI	C2	SIGMA-T	D-T	SVA	D-DY

KOREA ,JI RI SAN , STATION 209-10 , 35-17.8. N, 130-50.0. E, APR.12.1982, 15:40 KST, DEPTH 140 , COLOR 3, TRANS. 10.0,
 WAVE SW 1, SWELL SW 2, WIND SW 2, BARD 1018. , AIR TEMP. DRY 16.0, WET , CLOUD. TYPE C1, AMT 04, WEATHER BC,
 0 12.78 34.537 ***** 0 12.78 34.537 ***** 26.09 192 192 0.0000
 10 12.59 34.562 ***** 10 12.59 34.562 ***** 26.15 187 187 0.0189
 20 12.28 34.552 ***** 20 12.28 34.552 ***** 26.20 182 182 0.0374
 30 11.87 34.536 ***** 30 11.87 34.536 ***** 26.27 175 175 0.0554
 40 11.71 34.523 ***** 50 11.68 34.521 ***** 26.29 173 174 0.0905
 60 11.15 34.495 ***** 75 11.08 34.491 ***** 26.38 165 166 0.1332
 97 9.75 34.409 ***** 100 9.56 34.400 ***** 26.57 147 148 0.1726
 119 8.42 34.348 ***** 125 7.37 34.305 ***** 26.83 122 123 0.2067
 138 5.12 34.213 *****

KOREA ,JI RI SAN , STATION 209-11 , 35-11.4. N, 131-06.6. E, APR.12.1982, 17:45 KST, DEPTH 140 , COLOR 3, TRANS. 9.0,
 WAVE SW 1, SWELL SW 2, WIND SW 2, BARD 1018. , AIR TEMP. DRY 15.3, WET , CLOUD. TYPE C1, AMT 03, WEATHER BC,
 0 13.75 34.575 ***** 0 13.75 34.575 ***** 25.92 208 208 0.0000
 10 13.19 34.583 ***** 10 13.19 34.583 ***** 26.05 197 197 0.0202
 20 13.20 34.573 ***** 20 13.20 34.573 ***** 26.04 198 198 0.0400
 30 13.00 34.587 ***** 30 13.00 34.587 ***** 26.09 193 193 0.0596
 50 11.86 34.525 ***** 50 11.86 34.525 ***** 26.26 176 177 0.0967
 75 11.17 34.500 ***** 75 11.17 34.500 ***** 26.37 166 167 0.1398
 106 9.55 34.403 ***** 100 9.86 34.421 ***** 26.54 150 152 0.1798
 125 6.81 34.260 ***** 125 6.81 34.260 ***** 26.88 116 117 0.2138
 137 4.34 34.136 *****

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

6月(June)

KOREA ,JI RI SAN , STATION 209-04 , 35-47.3. N, 129-32.8. E, JUN. 9.1982, 21:25 KST, DEPTH 64 , COLOR , TRANS. ,
 WAVE SW 1, SWELL SW 1, WIND SW 2, BARO 1014. , AIR TEMP. DRY 19.5, WET , CLOUD. TYPE , AMT , WEATHER B ,
 0 16.77 34.307 ***** 25.05 291 291 0.0000
 10 15.97 34.301 ***** 25.23 274 274 0.0282
 20 14.66 34.385 ***** 25.59 240 241 0.0540
 30 14.49 34.462 ***** 25.68 231 232 0.0777
 50 14.33 34.489 ***** 25.74 226 227 0.1236
 60 13.30 34.446 *****

KOREA ,JI RI SAN , STATION 209-05 , 35-45.4. N, 129-38.4. E, JUN. 9.1982, 22:25 KST, DEPTH 150 , COLOR , TRANS. ,
 WAVE SW 1, SWELL SW 1, WIND SW 3, BARO 1014. , AIR TEMP. DRY 19.5, WET , CLOUD. TYPE , AMT , WEATHER BC,
 0 20.31 34.385 ***** 24.23 370 369 0.0000
 10 20.24 34.381 ***** 24.24 368 368 0.0369
 20 18.95 34.396 ***** 24.59 335 336 0.0721
 30 16.27 34.535 ***** 25.34 263 264 0.1022
 50 15.27 34.531 ***** 25.56 242 243 0.1530
 75 14.47 34.492 ***** 25.71 229 230 0.2123
 109 10.20 34.370 ***** 26.26 176 178 0.2635
 127 2.28 34.097 ***** 27.19 088 088 0.2969
 145 1.65 34.057 *****

KOREA ,JI RI SAN , STATION 209-06 , 35-41.3. N, 129-49.0. E, JUN.10.1982, 00:00 KST, DEPTH 250 , COLOR , TRANS. ,
 WAVE SW 1. SWELL SW 1, WIND SW 2, BARO 1014. , AIR TEMP. DRY 19.3, WET , CLOUD. TYPE , AMT , WEATHER BC,
 0 19.73 34.468 ***** 24.44 349 349 0.0000

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
10	19.15	34.487	*****							10	19.15	34.487	*****	24.61	334	334	0.0341
20	18.50	34.464	*****							20	18.50	34.464	*****	24.75	320	320	0.0668
30	18.14	34.442	*****							30	18.14	34.442	*****	24.82	313	313	0.0986
42	16.01	34.614	*****							50	15.89	34.614	*****	25.49	249	251	0.1550
62	15.72	34.616	*****							75	15.27	34.590	*****	25.61	238	240	0.2165
82	15.03	34.576	*****							100	12.12	34.486	*****	26.18	184	186	0.2698
109	10.67	34.441	*****							125	8.19	34.349	*****	26.75	130	132	0.3096
159	2.94	34.154	*****							150	4.33	34.205	*****	27.14	093	094	0.3380
187	1.42	34.077	*****							200	1.31	34.074	*****	27.30	078	078	0.3812
220	1.15	34.070	*****														

KOREA , JI RI SAN , STATION 209-07 , 35-36.8. N, 130-00.3. E, JUN.10.1982, 01:35 KST, DEPTH 250 , COLOR , TRANS.

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
0	19.48	34.499	*****							0	19.48	34.499	*****	24.53	341	340	0.0000
10	19.18	34.503	*****							10	19.18	34.503	*****	24.61	333	333	0.0337
20	18.08	34.504	*****							20	18.08	34.504	*****	24.89	307	307	0.0657
30	16.95	34.499	*****							30	16.95	34.499	*****	25.16	281	282	0.0952
50	15.73	34.627	*****							50	15.73	34.627	*****	25.54	245	246	0.1481
74	15.11	34.601	*****							75	15.03	34.598	*****	25.67	233	234	0.2083
97	13.47	34.532	*****							100	13.24	34.527	*****	25.99	202	204	0.2632
135	10.64	34.472	*****							125	11.38	34.487	*****	26.32	170	173	0.3105
150	4.46	34.198	*****							150	4.46	34.198	*****	27.12	095	096	0.3442
187	1.61	34.081	*****							200	1.45	34.079	*****	27.29	078	079	0.3882
232	1.09	34.075	*****														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY
KOREA ,JI RI SAN , STATION 209-08 , 35-30.8. N, 130-16.9. E, JUN.10.1982, 03:40 KST, DEPTH 200 , COLOR , TRANS. ,																	
WAVE , SWELL , WIND SW 2, BARO 1014. , AIR TEMP. DRY 18.8, WET , CLOUD. TYPE , AMT , WEATHER B ,																	
0	19.19	34.488	*****							0	19.19	34.488	*****	24.60	334	334	0.0000
10	19.09	34.494	*****							10	19.09	34.494	*****	24.63	332	332	0.0333
20	18.50	34.500	*****							20	18.50	34.500	*****	24.78	317	317	0.0658
30	17.10	34.513	*****							30	17.10	34.513	*****	25.13	284	284	0.0959
50	15.55	34.493	*****							50	15.55	34.493	*****	25.47	251	252	0.1496
74	14.48	34.508	*****							75	14.37	34.507	*****	25.74	225	227	0.2097
91	12.66	34.497	*****							100	11.81	34.477	*****	26.23	179	181	0.2608
120	9.95	34.435	*****							125	9.59	34.414	*****	26.58	146	148	0.3021
152	7.67	34.302	*****							150	7.81	34.310	*****	26.78	127	129	0.3369
196	2.37	34.122	*****														
KOREA ,JI RI SAN , STATION 209-09 , 35-24.4. N, 130-33.5. E, JUN.10.1982, 05:45 KST, DEPTH 150 , COLOR , TRANS. ,																	
WAVE , SWELL , WIND SW 2, BARO 1014. , AIR TEMP. DRY 19.7, WET , CLOUD. TYPE CI, AMT 04, WEATHER EC, ,																	
0	19.77	34.492	*****							0	19.77	34.492	*****	24.45	348	348	0.0000
10	19.36	34.492	*****							10	19.36	34.492	*****	24.56	338	338	0.0343
15	18.75	34.495	*****							20	18.55	34.503	*****	24.77	318	318	0.0672
22	18.47	34.507	*****							30	16.87	34.529	*****	25.20	277	278	0.0970
34	16.07	34.540	*****							50	15.58	34.596	*****	25.55	244	245	0.1495
55	15.47	34.614	*****							75	14.25	34.553	*****	25.80	220	221	0.2079
67	14.88	34.562	*****							100	12.30	34.525	*****	26.18	184	186	0.2590
105	11.92	34.520	*****							125	9.64	34.421	*****	26.58	146	148	0.3010
141	7.82	34.343	*****														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY

FOREA .JI RI SAN , STATION 209-10 , 35-17.8. N. 130-50.0. E. JUN.10.1982, 07:50 KST. DEPTH 140 , COLOR 3, TRANS. 17.0.
 WAVE SW 1, SWELL SW 1, WIND SW 2, BARO 1014. , AIR TEMP. DRY 22.5, WET , CLOUD. TYPE CU, AMT 09, WEATHER C ,

0	20.17	34.487	*****							0	20.17	34.487	*****	24.34	359	358	0.0000
10	19.76	34.485	*****							10	19.76	34.485	*****	24.45	349	349	0.0354
20	18.04	34.483	*****							20	18.04	34.483	*****	24.88	307	308	0.0682
30	16.58	34.490	*****							30	16.58	34.490	*****	25.24	274	274	0.0974
50	15.60	34.613	*****							50	15.60	34.613	*****	25.55	243	244	0.1493
75	14.76	34.566	*****							75	14.76	34.566	*****	25.70	229	231	0.2089
104	12.92	34.533	*****							100	13.17	34.537	*****	26.01	200	202	0.2631
130	11.12	34.483	*****							125	11.46	34.492	*****	26.31	171	174	0.3102
137	7.39	34.301	*****														

FOREA .JI RI SAN , STATION 209-11 , 35-11.4. N. 131-06.6. E. JUN.10.1982, 09:55 KST, DEPTH 140 , COLOR 3, TRANS. 16.0,
 WAVE SW 1, SWELL SW 2, WIND SW 2, BARO 1014. , AIR TEMP. DRY 24.5, WET , CLOUD. TYPE , AMT , WEATHER C ,

0	20.50	34.496	*****							0	20.50	34.496	*****	24.26	366	366	0.0000
10	18.51	34.484	*****							10	18.51	34.484	*****	24.77	318	318	0.0342
20	17.80	34.507	*****							20	17.80	34.507	*****	24.96	300	300	0.0652
30	17.42	34.474	*****							30	17.42	34.474	*****	25.02	294	294	0.0950
50	16.12	34.539	*****							50	16.12	34.539	*****	25.38	260	261	0.1506
75	15.14	34.536	*****							75	15.14	34.536	*****	25.60	239	241	0.2135
106	14.13	34.539	*****							100	14.32	34.538	*****	25.78	222	225	0.2718
126	13.04	34.543	*****							125	13.09	34.542	*****	26.03	198	201	0.3251
138	11.97	34.519	*****														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

8月(August)

KOREA , JI RI SAN , STATION 209-04 , 35-47.3. N, 129-32.8. E, AUG. 5.1982, 18:45 KST, DEPTH 64 , COLOR , TRANS.

WAVE SW 2, SWELL SW 1, WIND SW 3, BARO 1005. , AIR TEMP. DRY 25.0, WET , CLOUD. TYPE CU, AMT 08, WEATHER C ,																	
0	23.82	32.716	****							0	23.82	32.716	****	21.99	584	583	0.0000
10	21.65	33.083	****							10	21.65	33.083	****	22.88	498	499	0.0541
20	18.16	33.937	****							20	18.16	33.937	****	25.13	283	284	0.0933
30	15.96	34.175	****							30	15.96	34.175	****	25.57	242	242	0.1176
50	8.93	34.228	****							50	8.93	34.228	****	26.54	150	150	0.1589
60	6.51	34.182	****														

KOREA , JI RI SAN , STATION 209-05 , 35-45.4. N, 129-38.4. E, AUG. 5.1982, 17:40 KST, DEPTH 150 , COLOR 3, TRANS. 21.0,

WAVE SW 2, SWELL SW 1, WIND SW 3, BARO 1005. , AIR TEMP. DRY 26.0, WET , CLOUD. TYPE CU, AMT 09, WEATHER C ,

0	23.90	32.239	****							0	23.90	32.239	****	21.60	620	620	0.0000
10	23.75	32.579	****							10	23.75	32.579	****	21.90	592	592	0.0606
20	17.43	33.640	****							20	17.43	33.640	****	24.38	355	355	0.1080
30	14.53	34.107	****							30	14.53	34.107	****	25.40	258	258	0.1387
50	13.72	34.195	****							50	13.72	34.195	****	25.64	235	236	0.1883
74	6.70	34.232	****							75	6.57	34.226	****	26.88	117	118	0.2327
96	4.02	34.115	****							100	3.82	34.108	****	27.11	095	096	0.2595
115	3.10	34.086	****							125	2.87	34.076	****	27.18	089	090	0.2828
142	2.50	34.059	****														

KOREA , JI RI SAN , STATION 209-06 , 35-41.3. N, 129-49.0. E, AUG. 5.1982, 16:05 KST, DEPTH 250 , COLOR 2, TRANS. 25.0,

WAVE SW 2, SWELL SW 1, WIND SW 2, BARO 1005. , AIR TEMP. DRY 28.6, WET , CLOUD. TYPE CS, AMT 02, WEATHER B ,

0	24.48	32.396	****							0	24.48	32.396	****	21.55	625	625	0.0000
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OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
10	23.40	32.600	*****							10	23.40	32.600	*****	22.02	580	581	0.0600
20	19.53	33.526	*****							20	19.53	33.526	*****	23.78	413	413	0.1100
30	16.19	34.168	*****							30	16.19	34.168	*****	25.08	288	289	0.1452
40	14.00	34.218	*****							50	13.46	34.235	*****	25.72	227	228	0.1970
60	12.92	34.252	*****							75	11.00	34.254	*****	26.21	181	182	0.2484
83	9.98	34.256	*****							100	7.28	34.207	*****	26.77	128	129	0.2875
109	5.86	34.182	*****							125	3.63	34.113	*****	27.14	093	094	0.3155
118	4.56	34.150	*****							150	2.55	34.061	*****	27.19	088	088	0.3383
130	2.97	34.088	*****														
181	1.92	34.020	*****														

KOREA , JI RI SAN , STATION 209-07 , 35-36.8. N, 130-00.3. E, AUG. 5.1982, 14:30 KST, DEPTH 250 , COLOR 2, TRANS. 25.0,

WAVE SW 1, SWELL SW 1, WIND SW 3, BARG 1006. , AIR TEMP. DRY 30.6, WET , CLOUD. TYPE CS, AMT 03, WEATHER BC,

0	25.12	32.169	*****							0	25.12	32.169	*****	21.19	660	660	0.0000
10	24.33	32.311	*****							10	24.33	32.311	*****	21.53	627	627	0.0644
20	21.98	32.906	*****							20	21.98	32.906	*****	22.65	520	520	0.1218
30	17.71	34.195	*****							30	17.71	34.195	*****	24.74	321	321	0.1639
45	17.16	34.178	*****							50	16.41	34.178	*****	25.03	293	294	0.2255
65	14.19	34.179	*****							75	14.13	34.247	*****	25.59	240	241	0.2926
79	14.11	34.275	*****							100	12.59	34.256	*****	25.91	209	211	0.3493
100	12.59	34.256	*****							125	8.15	34.281	*****	26.70	134	136	0.3928
121	8.64	34.265	*****							150	5.13	34.382	*****	27.19	088	090	0.4212
170	2.72	34.464	*****							200	2.59	34.215	*****	27.31	076	077	0.4632
220	2.51	34.049	*****														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA , JI RI SAN , STATION 209-08 , 35-30.8. N, 130-16.9. E, AUG. 5.1982, 12:25 KST, DEPTH 200 , COLOR 2, TRANS. 24.0,

WAVE SW 1, SWELL SW 1, WIND SW 3, BARO 1006.5, AIR TEMP. DRY 29.2, WET , CLOUD. TYPE CS, AMT 02, WEATHER B ,

0	25.19	32.284	****							0	25.19	32.284	****	21.25	654	654	0.0000
10	24.82	32.755	****							10	24.82	32.755	****	21.72	609	609	0.0631
20	22.54	33.270	****							20	22.54	33.270	****	22.77	509	509	0.1191
30	21.15	33.292	****							30	21.15	33.292	****	23.17	470	471	0.1682
50	18.13	34.137	****							50	18.13	34.137	****	24.59	335	336	0.2489
75	16.30	34.148	****							75	16.30	34.148	****	25.04	292	294	0.3278
101	14.05	34.305	****							100	14.13	34.298	****	25.63	236	238	0.3945
116	13.97	34.439	****							125	11.21	34.329	****	26.23	179	182	0.4471
131	9.37	34.256	****							150	6.46	34.204	****	26.88	117	119	0.4848
180	1.89	34.124	****														

KOREA , JI RI SAN , STATION 209-09 , 35-24.4. N, 130-33.5. E, AUG. 5.1982, 10:20 KST, DEPTH 150 , COLOR 2, TRANS. 24.0,

WAVE S 1, SWELL S 1, WIND S 2, BARO 1008. , AIR TEMP. DRY 28.5, WET , CLOUD. TYPE CS, AMT 03, WEATHER BC,

0	24.90	32.319	****							0	24.90	32.319	****	21.37	643	643	0.0000
10	23.84	32.975	****							10	23.84	32.975	****	22.18	566	566	0.0604
20	23.45	33.122	****							20	23.45	33.122	****	22.40	544	544	0.1160
30	17.88	34.162	****							30	17.88	34.162	****	24.67	327	328	0.1596
50	16.77	34.244	****							50	16.77	34.244	****	25.00	296	297	0.2222
75	15.59	34.179	****							75	15.59	34.179	****	25.22	275	277	0.2940
98	14.15	34.258	****							100	14.09	34.273	****	25.62	237	239	0.3586
126	13.34	34.477	****							125	13.36	34.469	****	25.92	208	211	0.4150
145	11.45	34.403	****														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA .JI RI SAN . STATION 209-10 , 35-17.8. N, 130-50.0. E. AUG. 5.1982, 08:15 KST, DEPTH 140 , COLOR 3, TRANS. 23.0, WAVE S 1, SWELL S 1, WIND S 2, BARO 1008. , AIR TEMP. DRY 27.0, WET , CLOUD. TYPE NS, AMT 10, WEATHER C ,																	
0	24.21	33.237	*****							0	24.21	33.237	*****	22.26	557	557	0.0000
10	23.83	33.852	*****							10	23.83	33.852	*****	22.84	502	502	0.0529
20	22.20	34.023	*****							20	22.20	34.023	*****	23.44	445	445	0.1004
30	19.18	34.248	*****							30	19.18	34.248	*****	24.42	352	352	0.1403
50	16.39	*****	*****							50	16.39	34.274	*****	25.11	285	286	0.2043
75	15.03	34.307	*****							75	15.03	34.307	*****	25.45	254	255	0.2721
99	14.56	34.438	*****							100	14.47	34.438	*****	25.67	232	235	0.3335
122	12.49	34.460	*****							125	11.36	34.423	*****	26.28	175	177	0.3851
134	7.98	34.313	*****														
KOREA .JI RI SAN . STATION 209-11 , 35-11.4. N, 131-06.6. E, AUG. 5.1982, 16:10 KST, DEPTH 140 , COLOR 3, TRANS. 23.0, WAVE SW 1, SWELL SW 1, WIND SW 1, BARO 1007. , AIR TEMP. DRY 24.5, WET , CLOUD. TYPE NS, AMT 10, WEATHER C ,																	
0	24.94	32.025	*****							0	24.94	32.025	*****	21.13	665	665	0.0000
10	23.85	33.763	*****							10	23.85	33.763	*****	22.77	509	509	0.0587
20	23.70	33.927	*****							20	23.70	33.927	*****	22.93	493	497	0.1089
29	21.22	34.256	*****							30	20.97	34.260	*****	23.95	396	396	0.1534
46	17.04	34.338	*****							50	16.77	34.348	*****	25.08	288	289	0.2221
67	15.60	34.391	*****							75	15.20	34.399	*****	25.48	250	252	0.2899
83	14.74	34.407	*****							100	12.61	34.424	*****	26.04	197	200	0.3465
104	12.12	34.429	*****							125	8.45	34.303	*****	26.67	137	139	0.3890
129	7.76	34.279	*****														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY

10月(October)

KOREA ,JI RI SAN , STATION 209-04 , 35-47.3. N, 129-32.8. E, OCT. 7.1982, 17:30 KST, DEPTH 64 , COLOR 5, TRANS. 15.0,
WAVE SE 1, SWELL SE 1, WIND SE 1, BARO 1012.5, AIR TEMP. DRY 25.5, WET , CLOUD. TYPE , AMT , WEATHER B ,

0	21.48	32.749	5.46							0	21.48	32.749	5.46	22.67	518	518	0.0000
10	20.34	32.747	5.28							10	20.34	32.747	5.28	22.97	489	499	0.0504
20	18.96	33.009	****							20	18.96	33.009	5.30	23.53	436	437	0.0967
30	15.59	33.591	5.32							30	15.59	33.591	5.32	24.77	318	318	0.1345
50	11.73	34.206	5.33							50	11.73	34.206	5.33	26.04	197	198	0.1862
60	5.03	34.256	5.44														

KOREA ,JI RI SAN , STATION 209-05 , 35-45.4. N, 129-38.4. E, OCT. 7.1982, 18:20 KST, DEPTH 150 , COLOR , TRANS. ,
WAVE SE 1, SWELL SE 1, WIND SE 1, BARO 1012.5, AIR TEMP. DRY 20.4, WET , CLOUD. TYPE , AMT , WEATHER B ,

0	22.28	32.695	5.05							0	22.28	32.695	5.05	22.41	543	543	0.0000
10	21.77	32.691	5.32							10	21.77	32.691	5.32	22.55	530	530	0.0536
18	18.12	33.203	5.03							20	17.16	33.373	5.11	24.24	368	368	0.0984
27	13.82	33.972	5.42							30	13.67	34.039	5.44	25.53	246	246	0.1294
42	13.11	34.310	5.53							50	11.57	34.297	5.41	26.14	188	189	0.1730
63	9.07	34.277	5.22							75	8.10	34.255	5.09	26.69	135	136	0.2137
81	7.62	34.245	5.03							100	4.88	34.175	5.16	27.05	101	102	0.2436
117	2.44	34.114	5.28							125	1.89	34.093	5.36	27.27	080	080	0.2666
132	1.41	34.075	5.43														

KOREA ,JI RI SAN , STATION 209-06 , 35-41.3. N, 129-49.0. E, OCT. 7.1982, 19:45 KST, DEPTH 250 , COLOR , TRANS. ,
WAVE NE 1, SWELL NE 1, WIND NE 2, BARO 1013. , AIR TEMP. DRY 19.6, WET , CLOUD. TYPE , AMT , WEATHER B ,

0	22.25	32.773	5.03							0	22.25	32.773	5.03	22.48	537	536	0.0000
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OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY
10	22.08	32.734	5.23							10	22.08	32.734	5.23	22.49	535	535	0.0536
20	22.08	32.731	5.03							20	22.08	32.731	5.03	22.49	535	536	0.1072
30	21.57	33.050	5.13							30	21.57	33.050	5.13	22.67	499	499	0.1596
50	15.14	33.631	5.72							50	15.14	33.631	5.72	24.50	305	306	0.2396
75	13.99	34.231	5.38							75	13.99	34.231	5.38	25.61	238	240	0.3080
102	7.12	34.247	5.63							100	7.62	34.245	5.61	26.75	130	131	0.3595
125	5.27	34.129	5.63							125	5.27	34.129	5.63	27.18	089	089	0.3821
147	1.61	34.077	5.23							150	1.48	34.075	5.32	27.29	079	079	0.4033
190	0.84	34.065	5.82							200	0.81	34.064	5.79	27.32	075	075	0.4421
236	0.72	34.063	5.72														

KOREA .J1 61 SAN . STATION 209-07 . 35.36.8. N. 139-09.3. E. OCT. 7.1982. 21:10 EST. DEPTH 250 . COLOR . TRANS. .

WAVE NE 1, SMELL NE 1, WIND NE 1, BARG 1014. , AIR TEMP. DRY 19.7, WET . CLOUD. TYPE . AMT . WEATHER B ,

0	22.65	33.037	5.32							0	22.65	33.037	5.32	22.56	528	528	0.0900
10	22.52	33.003	5.42							10	22.52	33.003	5.42	22.57	527	527	0.0528
20	23.22	33.343	5.43							20	23.22	33.343	5.43	22.63	522	522	0.1053
30	23.29	33.367	5.08							30	23.29	33.367	5.08	22.63	522	523	0.1576
50	22.55	33.326	5.72							50	22.55	33.326	5.72	22.81	505	506	0.2606
75	15.22	34.289	5.42							75	15.22	34.289	5.42	25.39	259	261	0.3566
92	13.06	34.346	5.68							100	10.69	34.303	5.74	26.30	172	174	0.4110
116	5.95	34.218	5.88							125	4.61	34.164	5.57	27.07	099	100	0.4454
138	2.69	34.086	5.13							150	2.29	34.080	5.23	27.23	084	085	0.4686
183	1.22	34.066	5.53							200	1.12	34.066	5.59	27.36	077	077	0.5093
242	0.89	34.066	5.77														

OBSERVED										INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY	

KOREA ,JI RI SAN , STATION 209-08 , 35-30.8. N, 130-16.9. E, OCT. 7.1982, 23:05 KST, DEPTH 200 , COLOR , TRANS. ,
 WAVE NE 1. SWELL NE 1. WIND NE 1. AIR TEMP. DRY 19.0, WET , CLOUD. TYPE , AMT , WEATHER B ,

0	22.39	32.922	5.22							0	22.39	32.922	5.22	22.55	530	529	0.0000
10	22.18	32.915	5.42							10	22.18	32.915	5.42	22.60	525	525	0.0527
20	22.30	33.210	5.23							20	22.30	33.210	5.23	22.79	507	507	0.1043
30	21.98	33.253	5.08							30	21.98	33.253	5.08	22.91	495	495	0.1545
50	17.87	33.552	5.48							50	17.87	33.552	5.48	24.21	371	372	0.2414
75	15.41	34.274	5.63							75	15.41	34.274	5.63	25.34	264	266	0.3213
102	14.12	34.335	5.53							100	14.21	34.330	5.53	25.64	235	238	0.3843
127	9.23	34.318	5.82							125	9.62	34.319	5.79	26.50	153	156	0.4336
154	2.75	34.105	5.35							150	3.71	34.136	5.41	27.15	092	093	0.4648
195	0.93	34.080	5.90														

KOREA ,JI RI SAN , STATION 209-09 , 35-24.4. N, 130-33.5. E, OCT. 8.1982, 01:00 KST, DEPTH 150 , COLOR , TRANS. ,
 WAVE NE 1. SWELL NE 1. WIND NE 1. AIR TEMP. DRY 18.0, WET , CLOUD. TYPE , AMT , WEATHER B ,

0	22.09	32.643	****							0	22.09	32.643	****	22.42	542	542	0.0000
10	22.09	32.620	5.28							10	22.09	32.620	5.28	22.41	544	544	0.0543
20	22.06	32.644	5.35							20	22.06	32.644	5.35	22.43	541	541	0.1086
29	22.46	32.983	5.32							30	22.22	33.018	5.32	22.67	518	519	0.1616
47	18.30	33.617	5.42							50	18.06	33.692	5.44	24.27	365	367	0.2503
70	16.47	34.192	5.63							75	16.27	34.226	5.64	25.10	286	288	0.3323
93	15.51	34.349	5.70							100	15.13	34.364	5.69	25.47	252	254	0.4001
116	14.28	34.401	5.67							125	12.84	34.386	5.52	25.36	204	207	0.4579
144	9.82	34.356	5.03														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY
KOREA .JI RI SAN . STATION 209-10 , 35-17.8. N, 130-50.0. E, OCT. 8.1982, 02:55 KST, DEPTH 140 , COLOR , TRANS. WAVE NE 1, SWELL NE 1, WIND NE 2, BARO 1012.5, AIR TEMP. DRY 18.5, WET , CLOUD. TYPE , AMT , WEATHER B ,																	
0	22.78	33.411	5.13							0	22.78	33.411	5.13	22.81	505	505	0.0000
10	22.78	33.405	5.43							10	22.78	33.405	5.43	22.81	505	505	0.0505
20	22.76	33.380	5.58							20	22.76	33.360	5.58	22.79	507	507	0.1012
30	22.78	33.387	5.32							30	22.78	33.390	5.34	22.79	507	507	0.1519
47	22.92	33.453	5.77							50	22.45	33.465	5.78	22.94	492	494	0.2521
65	20.14	33.530	5.87							75	17.95	33.858	5.87	24.42	351	353	0.3580
85	15.77	34.187	5.92							100	14.09	34.307	5.82	25.65	235	237	0.4318
98	14.70	34.309	5.82														
120	8.06	34.297	5.84														
KOREA .JI RI SAN , STATION 209-11 , 35-11.4. N, 131-06.6. E, OCT. 8.1982, 04:50 KST, DEPTH 140 , COLOR , TRANS. WAVE NE 1, SWELL NE 1, WIND NE 2, BARO 1013. , AIR TEMP. DRY 17.5, WET , CLOUD. TYPE , AMT , WEATHER B ,																	
0	22.22	33.334	5.47							0	22.22	33.334	5.47	22.91	495	495	0.0000
10	22.32	33.322	5.13							10	22.32	33.322	5.13	22.87	499	499	0.0497
17	22.26	33.291	5.27							20	22.23	33.291	5.36	22.87	499	499	0.0997
25	22.20	33.292	5.53							30	22.12	33.260	5.46	22.88	498	499	0.1496
35	22.05	33.229	5.40							50	21.47	33.204	5.92	23.02	485	486	0.2482
50	21.47	33.204	5.92							75	19.17	33.736	5.92	24.03	389	391	0.3580
85	18.26	33.950	5.92							100	16.94	34.206	5.51	24.93	302	305	0.4451
107	16.68	34.258	5.43														
123	15.52	34.372	5.68														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY

12月(December)

KOREA .J1 RI SAN . STATION 209-04 . 35-47.3. N, 129-32.8. E, DEC.14.1982, 15:35 KST, DEPTH 64 , COLOR 4, TRANS. 15.0,
 WAVE NW 1, SWELL NW 1, WIND NW 3, BARO 1030. , AIR TEMP. DRY 9.4, WET , CLOUD. TYPE , AMT , WEATHER B ,
 0 15.28 34.140 5.51 0 15.28 34.140 5.51 25.26 271 271 0.0000
 10 15.38 34.100 5.80 10 15.38 34.100 5.80 25.21 276 276 0.0273
 20 15.39 34.104 5.72 20 15.39 34.104 5.72 25.21 276 276 0.0550
 30 15.38 34.108 5.72 30 15.38 34.108 5.72 25.22 275 276 0.0827
 50 15.33 34.124 5.58 50 15.33 34.124 5.58 25.24 273 274 0.1378
 60 15.21 34.136 5.58

KOREA .J1 RI SAN . STATION 209-05 . 35-45.4. N, 129-38.4. E, DEC.14.1982, 14:40 KST, DEPTH 150 , COLOR 3, TRANS. 16.0,
 WAVE NW 2, SWELL NW 1, WIND NW 4, BARO 1030. , AIR TEMP. DRY 8.7, WET , CLOUD. TYPE , AMT , WEATHER B ,
 0 15.84 34.178 5.85 0 15.84 34.178 5.85 25.17 280 280 0.0000
 10 15.92 34.187 5.75 10 15.92 34.187 5.75 25.16 281 281 0.0281
 20 15.94 34.191 5.92 20 15.94 34.191 5.92 25.15 281 282 0.0562
 30 15.87 34.188 5.73 30 15.87 34.188 5.73 25.17 280 281 0.0844
 50 15.25 34.091 5.84 50 15.25 34.091 5.84 25.23 274 275 0.1401
 75 13.79 34.039 5.49 75 13.79 34.039 5.49 25.50 248 250 0.2058
 92 6.78 34.060 5.31 100 5.72 34.065 5.38 26.87 119 120 0.2521
 122 2.83 34.079 5.59 125 2.77 34.079 5.54 27.19 088 089 0.2783
 144 2.40 34.079 5.29

KOREA .J1 RI SAN . STATION 209-06 . 35-41.3. N, 129-42.0. E, DEC.14.1982, 13:15 KST, DEPTH 250 , COLOR 3, TRANS. 18.0,
 WAVE NW 2, SWELL NW 1, WIND NW 3, BARO 1030. , AIR TEMP. DRY 6.0, WET , CLOUD. TYPE CU, AMT 02, WEATHER B ,
 0 15.59 34.186 5.55 0 15.59 34.186 5.55 25.23 274 274 0.0000

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
10	15.52	34.191	5.78							10	15.52	34.191	5.78	25.25	272	272	0.0273
20	15.68	34.232	5.75							20	15.68	34.232	5.75	25.24	273	273	0.0546
30	15.62	34.194	5.75							30	15.62	34.194	5.75	25.23	274	275	0.0821
50	15.64	34.206	6.03							50	15.64	34.206	6.03	25.23	274	275	0.1372
60	9.50	34.215	5.98							75	8.45	34.190	5.89	26.59	145	146	0.1899
94	7.12	34.159	5.79							100	6.85	34.155	5.73	26.79	126	127	0.2242
129	5.55	34.132	5.47							125	5.72	34.140	5.50	26.92	113	114	0.2546
148	3.07	34.093	5.61							150	2.89	34.089	5.62	27.19	088	089	0.2801
170	1.09	34.053	5.75							200	0.94	34.053	5.75	27.31	077	077	0.3219
234	0.77	34.053	5.77														

KOREA , JI RI SAN , STATION 209-07 , 35-36.8. N, 130-00.3. E, DEC.14.1982, 11:50 KST, DEPTH 250 , COLOR 3, TRANS. 18.0,

WAVE NW 2, SWELL NW 1, WIND NW 3, BARO 1032. , AIR TEMP. DRY 5.6, WET , CLOUD. TYPE CU, AMT 02, WEATHER B ,

0	17.11	34.315	5.58							0	17.11	34.315	5.58	24.98	298	298	0.0000
10	17.12	34.301	5.85							10	17.12	34.301	5.85	24.96	299	299	0.0299
20	16.56	34.336	5.72							20	16.56	34.336	5.72	25.12	284	285	0.0591
30	16.30	34.342	5.61							30	16.30	34.342	5.61	25.19	278	279	0.0873
50	15.07	34.330	5.80							50	15.07	34.330	5.80	25.45	253	254	0.1407
75	14.85	34.298	5.44							75	14.85	34.298	5.44	25.48	251	252	0.2041
104	11.26	34.255	5.55							100	11.75	34.260	5.53	26.08	194	196	0.2602
128	7.42	34.200	5.71							125	7.90	34.206	5.69	26.68	136	138	0.3021
159	2.94	34.091	5.89							150	4.24	34.122	5.83	27.08	098	099	0.3319
204	1.05	34.062	5.90							200	1.21	34.064	5.89	27.30	078	078	0.3765
244	0.94	34.072	5.99														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA .JI RI SAN , STATION 209-08 , 35-30.8. N, 130-16.9. E, DEC.14.1982, 09:55 KST, DEPTH 200 , COLOR 3, TRANS. 18.0,
 WAVE NW 1, SWELL NW 2, WIND NW 2, BARG 1031. , AIR TEMP. DRY 3.7, WET , CLOUD. TYPE CU, AMT 02, WEATHER B ,
 0 17.44 34.302 ***** 0 17.44 34.302 ***** 24.89 307 306 0.0000
 10 17.47 34.288 5.71 10 17.47 34.288 5.71 24.87 308 308 0.0307
 20 17.46 34.302 5.82 20 17.46 34.302 5.82 24.88 307 307 0.0616
 26 17.46 34.293 5.80 30 17.40 34.288 5.82 24.89 307 307 0.0924
 43 17.24 34.274 5.89 50 17.16 34.264 5.75 24.93 303 304 0.1536
 63 17.02 34.246 5.49 75 15.45 34.229 5.67 25.29 268 270 0.2255
 83 14.41 34.219 5.80 100 10.76 34.219 5.87 26.22 180 181 0.2821
 127 4.55 34.219 6.00 125 5.40 34.219 5.98 27.03 104 105 0.3180
 149 1.08 34.059 5.81 150 1.07 34.059 5.81 27.30 077 077 0.3409
 191 0.95 34.090 6.00

KOREA .JI RI SAN . STATION 209-09 , 35-24.4. N, 130-33.5. E, DEC.14.1982, 08:00 KST, DEPTH 150 , COLOR 3, TRANS. 15.0,
 WAVE NW 2, SWELL NW 1, WIND NW 5, BARG 1031. , AIR TEMP. DRY 4.0, WET , CLOUD. TYPE CU, AMT 04, WEATHER BC,
 0 17.19 34.175 5.69 0 17.19 34.175 5.69 24.85 310 310 0.0000
 10 17.19 34.187 5.70 10 17.19 34.187 5.70 24.86 309 309 0.0310
 16 17.17 34.170 5.79 20 17.19 34.174 5.76 24.85 310 311 0.0620
 23 17.21 34.177 5.74 30 17.23 34.175 5.77 24.84 311 312 0.0932
 37 17.25 34.174 5.80 50 17.25 34.174 5.77 24.84 312 313 0.1557
 56 17.25 34.174 5.77 75 17.25 34.194 5.74 24.85 310 312 0.2340
 75 17.25 ***** 100 16.01 34.185 5.61 25.13 283 286 0.3088
 92 17.15 34.165 5.59
 123 12.77 34.245 5.69

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA .JI RI SAN , STATION 209-10 , 35-17.8. N, 130-50.0. E, DEC.14.1982, 06:05 KST, DEPTH 140 , COLOR , TRANS.

WAVE NW 2, SWELL NW 1, WIND NW 3, BARO 1030.5, AIR TEMP. DRY 3.5, WET , CLOUD. TYPE , AMT , WEATHER BC,

0	16.19	33.919	5.44							0	16.19	33.919	5.44	24.89	307	306	0.0000
10	16.32	33.918	5.59							10	16.32	33.918	5.59	24.86	310	310	0.0308
18	16.14	33.951	5.69							20	16.14	33.940	5.65	24.92	304	304	0.0615
24	16.14	33.919	5.59							30	16.19	33.916	5.67	24.89	307	307	0.0922
43	16.30	33.911	5.86							50	16.30	33.909	5.80	24.85	310	311	0.1541
63	16.31	33.907	5.70							75	16.30	33.904	5.64	24.85	310	312	0.2321
83	16.30	33.903	5.60							100	12.87	33.914	5.57	25.59	240	242	0.3014
98	13.05	33.914	*****							125	10.66	33.922	5.55	26.01	200	202	0.3571
133	9.96	33.925	5.55														

KOREA .JI RI SAN , STATION 209-11 , 35-11.4. N, 131-06.6. E, DEC.14.1982, 04:10 KST, DEPTH 140 , COLOR , TRANS.

WAVE NW 2, SWELL NW 1, WIND NW 3, BARO 1030. , AIR TEMP. DRY 4.9, WET , CLOUD. TYPE , AMT , WEATHER BC,

0	16.45	33.985	5.62							0	16.45	33.985	5.62	24.88	308	307	0.0000
10	16.43	33.981	5.68							10	16.43	33.981	5.68	24.88	307	307	0.0307
17	16.47	33.979	5.82							20	16.45	33.982	5.72	24.88	308	308	0.0615
26	16.41	33.989	5.54							30	16.43	33.991	5.51	24.89	307	307	0.0924
45	16.53	34.002	5.41							50	16.53	33.998	5.45	24.87	308	309	0.1541
67	16.53	33.987	*****							75	16.40	34.004	5.67	24.90	305	307	0.2313
88	16.21	34.033	5.79							100	12.58	34.099	5.68	25.79	221	223	0.2977
111	9.27	34.161	5.59							125	7.58	34.149	5.65	26.68	136	138	0.3429
133	6.62	34.143	5.69														

208線 海洋觀測 成績

Oceanographic Data. Line 208

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY

2月(February)

KOREA ,JI RI SAN , STATION 208-01 , 35-28.5. N, 129-27.3. E, FEB.10.1982, 11:45 KST, DEPTH 70 , COLOR 4, TRANS. 13.0,
 WAVE NW 2, SWELL NW 2, WIND NW 4, BARO 1028. , AIR TEMP. DRY 5.5, WET , CLOUD. TYPE CU, AMT 04, WEATHER BC,
 0 13.20 34.511 ***** 0 13.20 34.511 ***** 25.99 202 202 0.0000
 10 13.15 34.509 ***** 10 13.15 34.509 ***** 26.00 201 201 0.0201
 20 13.20 34.523 ***** 20 13.20 34.523 ***** 26.00 201 201 0.0403
 30 13.22 34.518 ***** 30 13.22 34.518 ***** 25.99 202 202 0.0606
 50 13.23 34.510 ***** 50 13.23 34.510 ***** 25.98 203 204 0.1013
 65 13.10 34.501 *****

KOREA ,JI RI SAN , STATION 208-02 , 35-24.3. N, 129-33.8. E, FEB.10.1982, 10:40 KST, DEPTH 130 , COLOR 3, TRANS. 13.0,
 WAVE NW 2, SWELL NW 2, WIND NW 4, BARO 1028. , AIR TEMP. DRY 5.0, WET , CLOUD. TYPE CU, AMT 04, WEATHER BC,
 0 13.14 34.514 ***** 0 13.14 34.514 ***** 26.00 201 200 0.0000
 10 13.14 34.529 ***** 10 13.14 34.529 ***** 26.01 200 200 0.0200
 20 13.17 34.505 ***** 20 13.17 34.505 ***** 25.99 202 202 0.0401
 30 13.19 34.513 ***** 30 13.19 34.513 ***** 25.99 202 202 0.0604
 49 13.12 34.508 ***** 50 13.12 34.508 ***** 26.00 201 202 0.1009
 74 13.17 34.528 ***** 75 13.16 34.526 ***** 26.01 200 202 0.1515
 90 13.13 34.507 ***** 100 13.08 34.507 ***** 26.01 200 202 0.2021
 113 13.02 34.508 *****

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY

KOREA .JI RI SAN , STATION 208-03 , 35-17.8. N, 129-42.9. E, FEB.10.1982, 09:20 KST, DEPTH 150 , COLOR 3, TRANS. 12.0.
 WAVE NW 2, SWELL NW 2, WIND NW 4, BARO 1027. , AIR TEMP. DRY 3.5, WET , CLOUD. TYPE CU, AMT 03, WEATHER BC,
 0 13.16 34.517 ***** 0 13.16 34.517 ***** 26.00 201 201 0.0000
 10 13.23 34.506 ***** 10 13.23 34.506 ***** 25.98 203 203 0.0202
 19 13.23 34.524 ***** 20 13.23 34.520 ***** 25.99 202 202 0.0405
 29 13.26 34.516 ***** 30 13.25 34.516 ***** 25.98 203 203 0.0608
 48 13.22 34.531 ***** 50 13.21 34.530 ***** 26.00 201 202 0.1014
 72 13.12 34.523 ***** 75 13.12 34.522 ***** 26.01 200 201 0.1519
 87 13.14 34.519 ***** 100 13.03 34.498 ***** 26.01 200 202 0.2025
 106 12.98 34.489 ***** 125 12.93 34.510 ***** 26.04 197 200 0.2528
 125 12.93 34.510 *****

KOREA .JI RI SAN , STATION 208-04 , 35-11.1. N, 129-52.7. E, FEB.10.1982, 08:00 KST, DEPTH 143 , COLOR , TRANS. ,
 WAVE , SWELL , WIND , BARO , AIR TEMP. DRY 0.0, WET , CLOUD. TYPE , ANT , WEATHER ,
 0 12.67 34.520 ***** 0 12.67 34.520 ***** 26.10 191 191 0.0000
 10 12.68 ***** 10 12.68 34.526 ***** 26.10 191 191 0.0191
 19 12.70 34.532 ***** 20 12.69 34.529 ***** 26.10 191 191 0.0383
 29 12.60 34.510 ***** 30 12.59 34.510 ***** 26.11 191 191 0.0574
 48 12.54 34.519 ***** 50 12.53 34.517 ***** 26.12 189 190 0.0956
 72 12.52 34.503 ***** 75 12.51 34.502 ***** 26.12 190 191 0.1434
 87 12.50 34.499 ***** 100 12.32 34.515 ***** 26.17 185 187 0.1909
 106 12.24 34.523 *****
 123 10.87 34.447 *****

OBSERVED																	INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY								

KOREA ,JI RI SAN , STATION 208-05 , 35-04.8. N, 130-02.0. E, FEB.10.1982, 06:40 KST, DEPTH 140 , COLOR , TRANS. ,
 WAVE N 2, SWELL N 2, WIND N 4, BARO 1026. , AIR TEMP. DRY 4.5, WET , CLOUD. TYPE CU, AMT 05, WEATHER BC.
 0 13.51 34.570 ***** 0 13.51 34.570 ***** 25.97 204 203 0.0000
 10 13.49 34.597 ***** 10 13.49 34.597 ***** 26.00 201 201 0.0202
 19 13.51 34.597 ***** 20 13.51 34.597 ***** 25.99 202 202 0.0405
 29 13.53 34.598 ***** 30 13.52 34.598 ***** 25.99 202 203 0.0607
 48 13.51 34.598 ***** 50 13.51 34.598 ***** 25.99 202 203 0.1013
 72 13.51 34.600 ***** 75 13.47 34.600 ***** 26.00 201 202 0.1521
 86 13.33 34.600 ***** 100 13.22 34.587 ***** 26.04 197 199 0.2024
 104 13.20 34.584 *****
 120 11.75 34.552 *****

KOREA ,JI RI SAN , STATION 208-06 , 34-58.2. N, 130-11.9. E, FEB.10.1982, 05:20 KST, DEPTH 135 , COLOR , TRANS. ,
 WAVE NW 2, SWELL NW 2, WIND NW 4, BARO 1026. , AIR TEMP. DRY 4.9, WET , CLOUD. TYPE CU, AMT 07, WEATHER BC.
 0 12.76 34.513 ***** 0 12.76 34.513 ***** 26.08 194 193 0.0000
 9 12.90 34.578 ***** 10 12.89 34.575 ***** 26.10 191 191 0.0192
 19 12.83 34.550 ***** 20 12.83 34.549 ***** 26.09 192 192 0.0385
 28 12.84 34.542 ***** 30 12.84 34.544 ***** 26.08 193 193 0.0578
 47 12.93 34.563 ***** 50 12.93 34.560 ***** 26.08 193 194 0.0967
 71 12.93 34.541 ***** 75 12.93 34.549 ***** 26.07 194 196 0.1455
 80 12.93 34.561 ***** 100 12.57 34.549 ***** 26.14 187 190 0.1938
 110 12.40 34.544 *****

KOREA ,JI RI SAN , STATION 208-07 , 34-52.0. N, 130-20.9. E, FEB.10.1982, 04:00 KST, DEPTH 130 , COLOR , TRANS. ,
 WAVE NW 2, SWELL NW 2, WIND NW 5, BARO 1025. , AIR TEMP. DRY 5.4, WET , CLOUD. TYPE CU, AMT 06, WEATHER BC.
 0 12.74 34.468 ***** 0 12.74 34.468 ***** 26.05 196 196 0.0000

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-OY

10	12.71	34.540	*****							10	12.71	34.540	*****	26.11	191	191	0.0193
20	12.72	34.558	*****							20	12.72	34.558	*****	26.12	189	190	0.0384
30	12.70	34.515	*****							30	12.70	34.515	*****	26.09	192	193	0.0576
49	12.70	34.542	*****							50	12.70	34.540	*****	26.11	190	191	0.0961
74	12.70	34.497	*****							75	12.68	34.496	*****	26.08	193	195	0.1445
87	12.52	34.486	*****							100	11.74	34.499	*****	26.26	176	178	0.1912
106	11.38	34.505	*****														

KOREA ,JI RI SAN , STATION 208-08 , 34-45.3. N, 130-30.6. E, FEB.10.1982, 02:40 KST, DEPTH 130 , COLOR , TRANS. ,

WAVE NW 2, SWELL NW 2, WIND NW 4, BARO 1025. , AIR TEMP. DRY 6.5, WET , CLOUD. TYPE NS, AMT 07, WEATHER BC,

0	13.61	34.509	*****							0	13.61	34.509	*****	25.90	210	210	0.0900
10	12.70	34.530	*****							10	12.70	34.530	*****	26.10	191	191	0.0200
20	12.58	34.532	*****							20	12.58	34.532	*****	26.13	189	189	0.0391
30	12.44	34.521	*****							30	12.44	34.521	*****	26.15	187	187	0.0580
49	12.41	34.502	*****							50	12.40	34.501	*****	26.14	188	189	0.0957
74	12.27	34.499	*****							75	12.24	34.496	*****	26.16	185	187	0.1427
88	11.98	34.468	*****							100	10.32	34.470	*****	26.50	154	155	0.1856
123	7.15	34.476	*****														

KOREA ,JI RI SAN , STATION 208-09 , 34-38.9. N, 130-40.5. E, FEB.10.1982, 01:20 KST, DEPTH 130 , COLOR , TRANS. ,

WAVE SW 2, SWELL SW 2, WIND SW 4, BARO 1025. , AIR TEMP. DRY 7.5, WET , CLOUD. TYPE NS, AMT 07, WEATHER BC,

0	13.63	34.560	*****							0	13.63	34.560	*****	25.94	207	207	0.0000
10	13.57	34.575	*****							10	13.57	34.575	*****	25.96	205	204	0.0205
20	13.23	34.528	*****							20	13.23	34.528	*****	26.00	201	202	0.0409
30	12.96	34.505	*****							30	12.96	34.505	*****	26.03	198	198	0.0610
49	12.65	34.517	*****							50	12.63	34.515	*****	26.10	191	192	0.1001

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY

74	12.37	34.483	*****							75	12.35	34.475	*****	26.13	189	190	0.1480
87	12.23	34.390	*****							100	11.47	34.374	*****	26.22	180	182	0.1947
122	10.21	34.347	*****														

4月(April)

KOREA ,JI RI SAN , STATION 208-01 , 35-28.5. N, 129-27.3. E, APR.13.1982, 10:25 KST, DEPTH 70 , COLOR 3, TRANS. 11.0,
 WAVE SW 1, SWELL SW 1, WIND SW 1, BARO 1017. , AIR TEMP. DRY 20.5, WET , CLOUD. TYPE AS, AMT 06, WEATHER BC,
 0 13.15 34.477 ***** 0 13.15 34.477 ***** 25.97 204 203 0.0000
 10 13.03 34.482 ***** 10 13.03 34.482 ***** 26.00 201 201 0.0202
 20 12.97 34.473 ***** 20 12.97 34.473 ***** 26.00 200 201 0.0403
 30 12.94 34.472 ***** 30 12.94 34.472 ***** 26.01 200 200 0.0604
 50 12.39 34.440 ***** 50 12.39 34.440 ***** 26.09 192 193 0.0999
 65 12.25 34.435 *****

KOREA ,JI RI SAN , STATION 208-02 , 35-24.3. N, 129-33.8. E, APR.13.1982, 09:05 KST, DEPTH 130 , COLOR 3, TRANS. 12.0,
 WAVE SW 1, SWELL SW 1, WIND SW 1, BARO 1017.5, AIR TEMP. DRY 17.5, WET , CLOUD. TYPE AS, AMT 05, WEATHER BC,
 0 14.95 34.604 ***** 0 14.95 34.604 ***** 25.69 230 230 0.0000
 10 14.90 34.596 ***** 10 14.90 34.596 ***** 25.70 230 230 0.0230
 19 14.90 34.601 ***** 20 14.90 34.602 ***** 25.70 229 230 0.0460
 28 14.90 34.610 ***** 30 14.84 34.603 ***** 25.71 228 229 0.0690
 46 14.37 34.551 ***** 50 14.37 34.549 ***** 25.77 222 223 0.1143
 68 14.40 34.542 ***** 75 14.36 34.542 ***** 25.77 223 224 0.1704
 93 14.26 34.542 ***** 100 14.16 34.541 ***** 25.81 219 221 0.2262
 116 13.96 34.539 *****

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	O-DY

KOREA .JI RI SAN , STATION 208-03 , 35-17.8. N, 129-42.9. E, APR.13.1982, 07:30 KST, DEPTH 150 , COLOR 3, TRANS. 11.0.
 WAVE SW 1. SWELL SW 1. WIND SW 1. RARO 1017. , AIR TEMP. DRY 14.1, WET , CLOUD. TYPE C1, AMT 04, WEATHER BC.

0	14.71	34.563	*****							0	14.71	34.563	*****	25.71	228	228	0.0000
10	14.62	34.563	*****							10	14.62	34.563	*****	25.73	226	226	0.0227
18	14.63	34.575	*****							20	14.63	34.576	*****	25.74	226	226	0.0454
26	14.63	34.582	*****							30	14.63	34.578	*****	25.74	225	226	0.0680
44	14.63	34.567	*****							50	14.46	34.566	*****	25.77	223	224	0.1131
67	14.01	34.566	*****							75	14.02	34.566	*****	25.86	214	216	0.1682
90	14.04	34.567	*****							100	13.84	34.556	*****	25.89	211	214	0.2221
110	13.65	34.545	*****							125	10.70	34.441	*****	26.41	162	165	0.2695
137	8.34	34.359	*****														

KOREA .JI RI SAN , STATION 208-04 , 35-11.1. N, 129-52.7. E, APR.13.1982, 05:55 KST, DEPTH 143 , COLOR , TRANS. ,
 WAVE SW 2, SWELL SW 2. WIND SW 2. RARO 1016.5, AIR TEMP. DRY 13.9, WET , CLOUD. TYPE C1, AMT 04, WEATHER BC.

0	14.40	34.544	*****							0	14.40	34.544	*****	25.76	223	223	0.0000
10	14.35	34.559	*****							10	14.35	34.559	*****	25.79	221	221	0.0222
18	13.98	34.557	*****							20	13.97	34.557	*****	25.86	214	214	0.0440
25	13.97	34.557	*****							30	13.96	34.552	*****	25.86	214	214	0.0655
43	13.94	34.541	*****							50	13.94	34.545	*****	25.86	214	215	0.1085
64	13.94	34.555	*****							75	13.91	34.558	*****	25.88	213	214	0.1623
85	13.89	34.561	*****							100	13.66	34.561	*****	25.93	207	210	0.2154
120	13.37	34.562	*****							125	9.99	34.397	*****	26.50	154	156	0.2613
126	9.52	34.365	*****														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA .JI RI SAN , STATION 208-05 , 35-04.8. N, 130-02.0. E, APR.13.1982, 04:20 KST, DEPTH 140 , COLOR , TRANS.

WAVE SW 2, SWELL SW 2, WIND SW 3, BARO 1017. , AIR TEMP. DRY 13.7, WET , CLOUD. TYPE , AMT , WEATHER B ,

0	14.36	34.550	*****							0	14.36	34.550	*****	25.78	222	222	0.0000
10	14.31	34.560	*****							10	14.31	34.560	*****	25.80	220	220	0.0221
20	13.47	34.557	*****							20	13.47	34.557	*****	25.97	204	204	0.0434
30	13.35	34.548	*****							30	13.35	34.548	*****	25.99	202	203	0.0638
50	12.90	34.571	*****							50	12.90	34.571	*****	26.09	192	193	0.1034
74	12.83	34.569	*****							75	12.82	34.568	*****	26.11	191	192	0.1517
98	12.61	34.563	*****							100	12.49	34.553	*****	26.16	186	188	0.1993
124	11.08	34.433	*****							125	10.81	34.425	*****	26.38	165	168	0.2439
137	7.62	34.334	*****														

KOREA .JI RI SAN , STATION 208-06 , 34-58.2. N, 130-11.9. E, APR.13.1982, 02:50 KST, DEPTH 135 , COLOR , TRANS.

WAVE SW 2, SWELL SW 2, WIND SW 4, BARO 1018. , AIR TEMP. DRY 13.8, WET , CLOUD. TYPE , AMT , WEATHER B ,

0	14.09	34.590	*****							0	14.09	34.590	*****	25.87	214	213	0.0000
10	14.07	34.588	*****							10	14.07	34.588	*****	25.87	213	213	0.0213
20	13.15	34.594	*****							20	13.15	34.594	*****	26.06	195	195	0.0418
30	13.14	34.597	*****							30	13.14	34.597	*****	26.07	195	195	0.0614
50	13.00	34.589	*****							50	13.00	34.589	*****	26.09	193	193	0.1003
75	12.99	34.579	*****							75	12.99	34.579	*****	26.08	193	195	0.1490
101	12.78	34.579	*****							100	12.78	34.579	*****	26.12	189	191	0.1974
125	11.44	34.450	*****							125	11.44	34.450	*****	26.28	174	177	0.2435

KOREA .JI RI SAN , STATION 208-07 , 34-52.0. N, 130-20.9. E, APR.13.1982, 01:20 KST, DEPTH 130 , COLOR , TRANS.

WAVE SW 3, SWELL SW 2, WIND SW 4, BARO 1018. , AIR TEMP. DRY 14.0, WET , CLOUD. TYPE , AMT , WEATHER BC ,

0	14.74	34.583	*****							0	14.26	34.583	*****	25.82	218	217	0.0000
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OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

10	14.15	34.598	*****							10	14.15	34.598	*****	25.86	214	214	0.0216
20	13.26	34.624	*****							20	13.26	34.624	*****	26.06	195	195	0.0421
30	12.15	34.589	*****							30	12.15	34.589	*****	26.26	177	177	0.0698
50	11.97	34.590	*****							50	11.97	34.590	*****	26.29	173	174	0.0960
75	11.65	34.590	*****							75	11.65	34.590	*****	26.35	168	169	0.1390
100	10.92	34.579	*****							100	10.92	34.579	*****	26.48	156	158	0.1800
128	10.13	34.543	*****							125	10.21	34.546	*****	26.58	146	149	0.2184

KOREA , JI RI SAN , STATION 208-08 , 34-45.3. N, 130-30.6. E, APR.12.1982, 23:50 KST, DEPTH 140 , COLOR , TRANS. ,																	
WAVE SW 2, SWELL SW 2, WIND SW 3, BARO 1018. , AIR TEMP. DRY 13.8, WET , CLOUD. TYPE , AMT , WEATHER B ,																	
0	14.21	34.608	*****							0	14.21	34.608	*****	25.85	215	215	0.0000
10	14.16	34.592	*****							10	14.16	34.592	*****	25.85	215	215	0.0215
20	14.00	34.571	*****							20	14.00	34.571	*****	25.87	213	214	0.0429
30	14.00	34.582	*****							30	14.00	34.582	*****	25.88	213	213	0.0643
50	13.96	34.583	*****							50	13.96	34.583	*****	25.89	212	213	0.1070
75	13.93	34.573	*****							75	13.93	34.573	*****	25.89	212	213	0.1604
105	13.84	34.573	*****							100	13.85	34.573	*****	25.90	210	213	0.2138
138	12.70	34.548	*****							125	13.14	34.557	*****	26.03	198	201	0.2655

KOREA , JI RI SAN , STATION 208-09 , 34-38.9. N, 130-40.5. E, APR.12.1982, 22:20 KST, DEPTH 131 , COLOR , TRANS. ,																	
WAVE SW 1, SWELL SW 2, WIND SW 3, BARO 1018. , AIR TEMP. DRY 13.3, WET , CLOUD. TYPE , AMT , WEATHER B ,																	
0	14.21	34.581	*****							0	14.21	34.581	*****	25.83	217	216	0.0000
10	14.23	34.580	*****							10	14.23	34.580	*****	25.83	217	217	0.0217
20	14.05	34.577	*****							20	14.05	34.577	*****	25.86	214	214	0.0433
30	14.03	*****	*****							30	14.03	34.577	*****	25.87	213	214	0.0648
50	13.97	34.577	*****							50	13.97	34.577	*****	25.88	212	213	0.1076

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

68	13.90	34.577	*****							75	13.82	34.578	*****	25.91	209	211	0.1608
102	13.55	34.584	*****							100	13.57	34.583	*****	25.97	204	206	0.2130
129	10.67	34.590	*****							125	11.09	34.589	*****	26.45	158	160	0.2590

6月(June)

KOREA , JI RI SAN , STATION 208-01 , 35-28.5. N, 129-27.3. E, JUN.11.1982, 00:35 KST, DEPTH 70 , COLOR , TRANS. ,

WAVE SW 1, SWELL SW 1, WIND SW 4, BARO 1010.5, AIR TEMP. DRY 18.9, WET , CLOUD. TYPE , AMT , WEATHER BC,

0	18.27	34.197	*****							0	18.27	34.197	*****	24.61	334	333	0.0000
10	17.18	34.156	*****							10	17.18	34.156	*****	24.84	311	311	0.0322
20	14.53	34.381	*****							20	14.53	34.381	*****	25.61	238	238	0.0598
30	14.39	34.398	*****							30	14.39	34.398	*****	25.65	234	234	0.0834
50	14.34	34.468	*****							50	14.34	34.468	*****	25.72	228	229	0.1298
68	13.80	34.437	*****														

KOREA , JI RI SAN , STATION 208-02 , 35-24.3. N, 129-33.8. E, JUN.11.1982, 01:15 KST, DEPTH 130 , COLOR , TRANS. ,

WAVE SW 2, SWELL SW 1, WIND SW 2, BARO 1011. , AIR TEMP. DRY 20.1, WET , CLOUD. TYPE , AMT , WEATHER BC,

0	20.22	34.296	*****							0	20.22	34.296	*****	24.18	374	374	0.0000
10	20.15	34.305	*****							10	20.15	34.305	*****	24.21	371	371	0.0373
20	18.46	34.250	*****							20	18.46	34.250	*****	24.60	334	334	0.0726
30	16.78	34.367	*****							30	16.28	34.367	*****	25.21	276	276	0.1032
50	15.13	34.417	*****							50	15.13	34.417	*****	25.51	248	249	0.1558
75	14.68	34.523	*****							75	14.68	34.523	*****	25.69	231	232	0.2161
108	14.25	34.502	*****							100	14.35	34.507	*****	25.75	225	228	0.2737
126	4.31	34.205	*****							125	4.86	34.221	*****	27.09	097	098	0.3146

OBSERVED							INTERPOLATED							CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

FOREA .J1 R1 SAN , STATION 208-03 , 35-17.8. N. 129-42.7. E. JUN.10.1982, 23:40 PST, DEPTH 150 , COLOR , TRANS.
 WAVE SW 2, SWELL SW 1, WIND SW 2, BARO 1011. , AIR TEMP. DRY 21.0, WET , CLOUD. TYPE , AMT , WEATHER BC,
 0 20.53 34.320 ***** 0 20.53 34.320 ***** 24.12 380 380 0.0000
 10 20.43 34.319 ***** 10 20.43 34.319 ***** 24.14 378 378 0.0379
 20 19.95 34.342 ***** 20 19.95 34.342 ***** 24.29 364 364 0.0750
 30 16.85 34.391 ***** 30 16.85 34.391 ***** 25.10 287 287 0.1076
 50 15.90 34.405 ***** 50 15.90 34.405 ***** 25.33 265 266 0.1631
 75 15.07 34.537 ***** 75 15.07 34.537 ***** 25.61 238 239 0.2264
 95 14.20 34.473 ***** 100 13.45 34.459 ***** 25.90 211 213 0.2831
 120 10.49 34.406 ***** 125 8.06 34.331 ***** 26.76 129 131 0.3262
 135 3.20 34.181 *****

FOREA .J1 R1 SAN , STATION 209-04 , 35-11.1. N. 129-52.7. E. JUN.10.1982, 22:05 PST, DEPTH 143 , COLOR , TRANS.
 WAVE SW 1, SWELL SW 1, WIND SW 2, BARO 1011. , AIR TEMP. DRY 21.0, WET , CLOUD. TYPE , AMT , WEATHER B ,
 0 20.50 34.329 ***** 0 20.50 34.329 ***** 24.13 379 378 0.0000
 10 20.50 34.315 ***** 10 20.50 34.315 ***** 24.12 380 380 0.0379
 20 19.92 34.350 ***** 20 19.92 34.350 ***** 24.30 362 363 0.0751
 30 18.58 34.336 ***** 30 18.58 34.336 ***** 24.63 331 331 0.1098
 50 16.37 34.432 ***** 50 16.37 34.432 ***** 25.24 273 274 0.1705
 75 15.07 34.504 ***** 75 15.07 34.504 ***** 25.59 240 242 0.2351
 108 14.34 34.494 ***** 100 14.51 34.496 ***** 25.70 229 232 0.2944
 133 7.89 34.312 ***** 125 9.95 34.370 ***** 26.48 155 157 0.3432

FOREA .J1 R1 SAN , STATION 209-05 , 35-04.8. N. 130-02.0. E. JUN.10.1982, 20:50 PST, DEPTH 140 , COLOR , TRANS.
 WAVE SW 1, SWELL SW 1, WIND SW 2, BARO 1012. , AIR TEMP. DRY 21.5, WET , CLOUD. TYPE , AMT , WEATHER BC,
 0 21.00 34.426 ***** 0 21.00 34.426 ***** 24.07 384 384 0.0000

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

10	20.97	34.420	*****							10	20.97	34.420	*****	24.08	384	384	0.0384
20	20.31	34.416	*****							20	20.31	34.416	*****	24.25	367	368	0.0760
30	18.55	34.405	*****							30	18.55	34.405	*****	24.69	325	326	0.1108
50	16.47	34.470	*****							50	16.47	34.470	*****	25.25	273	274	0.1708
75	16.04	34.467	*****							75	16.04	34.467	*****	25.34	263	265	0.2383
97	14.46	34.429	*****							100	14.29	34.429	*****	25.70	230	232	0.3006
112	13.62	34.429	*****							125	11.06	34.422	*****	26.33	170	172	0.3512
128	10.47	34.421	*****														

KOREA ,JI RI SAN , STATION 208-06 , 34-58.2. N, 130-11.9. E, JUN.10.1982, 19:00 KST, DEPTH 135 , COLOR 3, TRANS. 16.0,
 WAVE SW 1, SWELL SW 1, WIND SW 2, BARO 1011. , AIR TEMP. DRY 22.0, WET , CLOUD. TYPE CI. AMT 03, WEATHER BC.

0	20.40	34.478	*****							0	20.40	34.478	*****	24.27	365	365	0.0000
10	20.02	34.471	*****							10	20.02	34.471	*****	24.37	356	356	0.0361
20	18.85	34.449	*****							20	18.85	34.449	*****	24.65	329	329	0.0704
30	17.98	34.432	*****							30	17.98	34.432	*****	24.86	310	310	0.1024
50	16.54	34.530	*****							50	16.54	34.530	*****	25.28	270	271	0.1606
75	15.37	34.549	*****							75	15.37	34.549	*****	25.56	243	245	0.2252
100	14.24	34.563	*****							100	14.24	34.563	*****	25.81	219	221	0.2836
127	12.45	34.491	*****							125	12.58	34.496	*****	26.10	191	194	0.3357

KOREA ,JI RI SAN , STATION 208-07 , 34-52.0. N, 130-20.9. E, JUN.10.1982, 17:30 KST, DEPTH 130 , COLOR 3, TRANS. 15.0,
 WAVE SW 1, SWELL SW 1, WIND SW 2, BARO 1010.5, AIR TEMP. DRY 24.2, WET , CLOUD. TYPE CI, AMT 04, WEATHER BC,

0	21.15	34.517	*****							0	21.15	34.517	*****	24.10	382	381	0.0000
10	21.75	34.509	*****							10	21.75	34.509	*****	23.93	398	398	0.0390
20	19.20	34.492	*****							20	19.20	34.492	*****	24.60	334	335	0.0757
30	17.67	34.529	*****							30	17.67	34.529	*****	25.01	295	296	0.1072

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

50	16.22	34.569	*****							50	16.22	34.569	*****	25.38	260	261	0.1630
75	15.54	34.555	*****							75	15.54	34.555	*****	25.52	246	248	0.2268
98	14.87	34.555	*****							100	14.75	34.554	*****	25.70	230	232	0.2870
119	13.70	34.550	*****														

KOREA ,JI RI SAN , STATION 208-08 , 34-45.3. N, 130-30.6. E, JUN.10.1982, 16:00 KST, DEPTH 130 , COLOR 3, TRANS. 17.0.

WAVE SW 1, SWELL SW 1, WIND SW 2, BARO 1011.5, AIR TEMP. DRY 25.9, WET , CLOUD. TYPE CI, AMT 03, WEATHER BC,

0	21.34	34.508	*****							0	21.34	34.508	*****	24.04	387	387	0.0000
10	20.69	34.508	*****							10	20.69	34.508	*****	24.22	370	370	0.0379
20	18.83	34.533	*****							20	18.83	34.533	*****	24.72	322	323	0.0726
30	17.63	34.541	*****							30	17.63	34.541	*****	25.03	294	294	0.1035
50	16.10	34.580	*****							50	16.10	34.580	*****	25.42	256	258	0.1588
75	15.37	34.598	*****							75	15.37	34.598	*****	25.59	239	241	0.2213
111	15.07	34.611	*****							100	15.16	34.607	*****	25.65	234	237	0.2812
121	15.03	34.600	*****														

KOREA ,JI RI SAN , STATION 208-09 , 34-38.9. N, 130-40.5. E, JUN.10.1982, 14:30 KST, DEPTH 138 , COLOR 3, TRANS. 17.0.

WAVE SW 1, SWELL SW 1, WIND SW 2, BARO 1012. , AIR TEMP. DRY 26.6, WET , CLOUD. TYPE CI, AMT 04, WEATHER BC,

0	21.56	34.507	*****							0	21.56	34.507	*****	23.98	393	393	0.0000
10	20.71	34.492	*****							10	20.71	34.492	*****	24.20	372	372	0.0382
20	18.97	34.511	*****							20	18.97	34.511	*****	24.67	327	328	0.0733
30	17.94	34.526	*****							30	17.94	34.526	*****	24.94	302	303	0.1049
50	16.71	34.575	*****							50	16.71	34.575	*****	25.27	270	271	0.1623
75	15.98	34.590	*****							75	15.98	34.590	*****	25.45	253	255	0.2283
108	15.64	34.600	*****							100	15.72	34.597	*****	25.51	247	250	0.2915
136	15.40	34.644	*****							125	15.50	34.626	*****	25.59	240	244	0.3532

OBSERVED										INTERPOLATED				CALCULATED		
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	D-DY

8月(August)

KOREA ,J1 RI SAN , STATION 208-01 , 35-28.5. N, 129-27.3. E, AUG. 4.1982, 14:00 KST, DEPTH 70 , COLOR 3, TRANS. 13.0,																
WAVE SW 1, SWELL SW 2, WIND SW 2, BARO 1007. , AIR TEMP. DRY 28.9, WET , CLOUD. TYPE C1, AMT 03, WEATHER BC,																
0	23.98	32.591	*****							0	23.98	32.591	*****	21.84	597	0.0000
10	22.87	32.672	*****							10	22.87	32.672	*****	22.23	561	0.0579
20	21.86	32.899	*****							20	21.86	32.899	*****	22.68	517	0.1119
30	17.01	33.577	*****							30	17.01	33.577	*****	24.44	350	0.1553
50	11.69	34.170	*****							50	11.69	34.170	*****	26.02	199	0.2104
68	7.21	34.206	*****													

KOREA ,J1 RI SAN , STATION 208-02 , 35-24.3. N, 129-33.8. E, AUG. 4.1982, 15:10 KST, DEPTH 130 , COLOR 3, TRANS. 15.0,																
WAVE SW 1, SWELL SW 2, WIND SW 2, BARO 1007. , AIR TEMP. DRY 28.9, WET , CLOUD. TYPE C1, AMT 04, WEATHER BC,																
0	24.86	32.189	*****							0	24.86	32.189	*****	21.28	651	0.0000
10	23.93	32.180	*****							10	23.93	32.180	*****	21.55	626	0.0638
20	17.43	32.834	*****							20	17.43	32.834	*****	23.77	413	0.1158
30	14.26	33.784	*****							30	14.26	33.784	*****	25.21	276	0.1504
49	14.14	34.085	*****							50	13.95	34.091	*****	25.51	248	0.2030
73	9.68	34.244	*****							75	9.45	34.243	*****	26.47	157	0.2539
96	7.10	34.234	*****							100	6.99	34.225	*****	26.83	122	0.2892
116	6.55	34.191	*****													

KOREA ,J1 RI SAN , STATION 208-03 , 35-17.8. N, 129-42.9. E, AUG. 4.1982, 16:40 KST, DEPTH 150 , COLOR 3, TRANS. 18.0,																
WAVE SW 2, SWELL SW 2, WIND SW 3, BARO 1007. , AIR TEMP. DRY 28.4, WET , CLOUD. TYPE C1, AMT 02, WEATHER B ,																
0	24.54	32.253	*****							0	24.54	32.253	*****	21.42	637	0.0000
10	23.75	32.384	*****							10	23.75	32.384	*****	21.76	606	0.0621

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

20	21.50	33.018	*****							20	21.50	33.018	*****	22.87	499	500	0.1175
26	18.43	33.580	*****							30	17.62	33.731	*****	24.41	352	353	0.1601
39	15.80	34.072	*****							50	15.19	34.256	*****	25.37	261	262	0.2217
56	14.87	34.357	*****							75	14.69	34.375	*****	25.57	242	243	0.2850
75	14.69	34.375	*****							100	12.87	34.359	*****	25.94	206	208	0.3416
98	13.20	34.367	*****														
124	8.48	34.271	*****														

KOREA ,JI RI SAN , STATION 208-04 , 35-11.1. N, 129-52.7. E, AUG. 4.1982, 18:10 KST, DEPTH 140 , COLOR 3, TRANS. 22.0,
WAVE SW 2, SWELL SW 1, WIND SW 2, BARO 1007. , AIR TEMP. DRY 26.5, WET , CLOUD. TYPE , AMT , WEATHER B ,

0	24.37	32.702	*****							0	24.37	32.702	*****	21.81	600	600	0.0000
10	24.62	32.793	*****							10	24.62	32.793	*****	21.81	601	601	0.0600
20	21.31	*****	*****							20	21.31	33.503	*****	23.29	459	460	0.1131
28	19.93	34.072	*****							30	19.59	34.082	*****	24.18	374	375	0.1549
45	17.12	34.158	*****							50	16.82	34.164	*****	24.93	303	304	0.2228
67	15.83	34.188	*****							75	15.48	34.250	*****	25.30	267	269	0.2946
88	14.93	34.351	*****							100	14.87	34.367	*****	25.53	246	248	0.3594
113	14.81	34.386	*****							125	13.54	34.411	*****	25.84	216	219	0.4179
127	13.33	34.416	*****														

KOREA ,JI RI SAN , STATION 208-05 , 35-04.8. N, 130-02.0. E, AUG. 4.1982, 19:40 KST, DEPTH 140 , COLOR , TRANS. ,
WAVE SW 1, SWELL SW 1, WIND SW 2, BARO 1007. , AIR TEMP. DRY 25.5, WET , CLOUD. TYPE , AMT , WEATHER B ,

0	24.52	32.753	*****							0	24.52	32.753	*****	21.81	601	601	0.0000
10	24.50	32.657	*****							10	24.50	32.657	*****	21.74	607	607	0.0604
20	24.10	32.712	*****							20	24.10	32.712	*****	21.90	592	592	0.1204
30	22.32	33.533	*****							30	22.32	33.533	*****	23.03	484	484	0.1743

OBSERVED										INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY	

49	19.16	34.265	*****							50	19.06	34.264	*****	24.46	348	349	0.2577
73	16.92	34.256	*****							75	16.76	34.256	*****	25.01	295	297	0.3385
96	15.16	34.263	*****							100	14.96	34.267	*****	25.43	255	258	0.4079
114	14.28	34.285	*****							125	13.45	34.303	*****	25.78	222	225	0.4684
138	12.48	34.325	*****														

KOREA .JI RI SAN . STATION 268-06 , 34-58.2. N. 130-11.9. E. AUG. 4.1982, 21:15 KST. DEPTH 135 ; COLOR ; TRANS. ;

WAVE SW 1, SWELL SW 1, WIND SW 1, WIND SW 2, BARO 1007. , AIR TEMP. DRY 25.0, WET , CLOUD. TYPE . AMT , WEATHER B ,

0	24.83	32.844	*****							0	24.83	32.844	*****	21.78	603	603	0.0000
10	24.53	32.878	*****							10	24.53	32.878	*****	21.90	592	592	0.0597
20	23.90	32.905	*****							20	23.90	32.905	*****	22.10	572	573	0.1180
30	20.14	33.797	*****							30	20.14	33.797	*****	23.82	408	409	0.1672
50	17.78	34.191	*****							50	17.78	34.191	*****	24.72	323	324	0.2405
75	15.70	34.183	*****							75	15.70	34.183	*****	25.20	277	279	0.3159
97	14.41	34.323	*****							100	14.12	34.324	*****	25.65	234	236	0.3804
132	11.07	34.338	*****							125	11.73	34.335	*****	26.14	188	191	0.4339

KOREA .JI RI SAN . STATION 268-07 , 34-52.0. N. 130-20.9. E. AUG. 4.1982, 22:45 KST. DEPTH 130 ; COLOR ; TRANS.

WAVE SW 1, SWELL SW 1, WIND SW 1, WIND SW 2, BARO 1008. , AIR TEMP. DRY 24.5, WET , CLOUD. TYPE . AMT , WEATHER B ,

0	24.49	32.773	*****							0	24.49	32.773	*****	21.83	599	598	0.0000
10	24.38	32.676	*****							10	24.38	32.676	*****	21.79	602	602	0.0600
20	21.59	33.140	*****							20	21.59	33.140	*****	22.94	493	493	0.1149
30	18.75	34.192	*****							30	18.75	34.192	*****	24.48	345	346	0.1569
50	16.40	34.242	*****							50	16.40	34.242	*****	25.09	288	289	0.2204
75	14.40	34.377	*****							75	14.40	34.377	*****	25.41	257	259	0.2800

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
100	14.98	34.375	*****							100	14.98	34.375	*****	25.51	248	250	0.3527
128	13.05	34.363	*****							125	13.25	34.364	*****	25.86	214	217	0.4112
KOREA , JI RI SAN , STATION 208-08 , 34-45.3. N, 130-30.6. E, AUG. 5.1982, 00:15 KST, DEPTH 130 , COLOR , TRANS.																	
WAVE SW 1, SWELL SW 1, WIND SW 2, BARG 1000. , AIR TEMP. DRY 24.4, WET , CLOUD. TYPE , ANT , WEATHER B .																	
0	24.61	32.470	*****							0	24.61	32.470	*****	21.54	627	626	0.3000
10	24.44	32.383	*****							10	24.44	32.383	*****	21.55	625	625	0.0626
20	24.15	33.147	*****							20	24.15	33.147	*****	22.21	562	562	0.1220
30	21.34	33.999	*****							30	21.34	33.999	*****	23.66	424	425	0.1714
50	16.37	34.274	*****							50	16.37	34.274	*****	25.12	285	286	0.2426
74	15.68	34.293	*****							75	15.65	34.296	*****	25.30	268	269	0.3121
91	15.26	34.348	*****							100	14.04	34.337	*****	25.68	231	234	0.3751
123	10.95	34.309	*****														
KOREA , JI RI SAN , STATION 208-09 , 34-38.9. N, 130-40.5. E, AUG. 5.1982, 01:45 KST, DEPTH 130 , COLOR , TRANS.																	
WAVE SW 1, SWELL SW 1, WIND SW 3, BARG 1007.5, AIR TEMP. DRY 24.3, WET , CLOUD. TYPE NS, ANT 10, WEATHER C .																	
0	24.82	33.154	*****							0	24.82	33.154	*****	22.02	580	580	0.0000
10	24.78	33.270	*****							10	24.78	33.270	*****	22.12	571	571	0.0576
20	21.89	33.496	*****							20	21.89	33.496	*****	23.12	475	475	0.1099
30	18.97	34.142	*****							30	18.97	34.142	*****	24.39	354	355	0.1515
50	16.99	34.215	*****							50	16.99	34.215	*****	24.93	303	304	0.2175
75	15.47	34.320	*****							75	15.47	34.320	*****	25.36	262	264	0.2885
95	15.22	34.388	*****							100	13.80	34.391	*****	25.77	223	225	0.3497
110	10.97	34.397	*****														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

10月(October)

KOREA , J1 R1 SAN , STATION 208-01 , 35-28.5. N. 129-27.3. E, OCT.10.1982. 07:15 KST, DEPTH 70 , COLOR 3. TRANS. 14.0.
 WAVE NE 2, SWELL NE 2, WIND NE 5. BARO 1013. , AIR TEMP. DRY 19.3. WET , CLOUD. TYPE , AMT , WEATHER B ,
 0 22.37 32.939 5.43 0 22.37 32.939 5.43 22.57 528 528 0.0000
 10 21.24 33.019 5.55 10 21.24 33.019 5.55 22.94 492 492 0.0510
 20 20.79 33.022 5.46 20 20.79 33.022 5.46 23.06 481 481 0.0997
 30 17.29 33.095 5.52 30 17.29 33.095 5.52 24.00 391 392 0.1434
 50 15.70 33.716 5.64 50 15.30 33.716 5.64 24.93 302 304 0.2130
 69 10.96 33.991 5.62

KOREA , J1 R1 SAN , STATION 208-02 , 35-24.3. N. 129-33.8. E. OCT. 8.1982, 18:45 KST, DEPTH 130 , COLOR 3. TRANS. 15.0,
 WAVE NE 3, SWELL NE 2, WIND NE 5. BARO 1013. , AIR TEMP. DRY 22.5. WET , CLOUD. TYPE CU, AMT 05, WEATHER BC,
 0 22.50 33.014 5.42 0 22.50 33.014 5.42 22.59 526 526 0.0000
 10 21.60 33.011 5.60 10 21.60 33.011 5.60 22.84 502 502 0.0514
 20 20.04 33.056 5.40 20 20.04 33.056 5.40 23.29 459 460 0.0976
 29 18.47 33.408 5.62 30 18.40 33.408 5.62 23.97 394 395 0.1423
 47 17.25 33.408 5.64 50 17.10 33.458 5.65 24.32 361 362 0.2180
 70 16.17 33.798 5.75 75 15.11 33.852 5.68 25.08 289 290 0.2997
 90 11.95 34.014 5.48 100 11.36 34.076 5.37 26.00 200 202 0.3614
 121 10.15 34.209 5.14

KOREA , J1 R1 SAN , STATION 208-03 , 35-17.8. N. 129-42.9. E. OCT. 8.1982. 17:20 KST, DEPTH 150 , COLOR 3. TRANS. 16.0.
 WAVE NE 3, SWELL NE 3, WIND NE 5. BARO 1013. , AIR TEMP. DRY 23.0. WET , CLOUD. TYPE NS, AMT 09, WEATHER C ,
 0 22.30 33.020 5.25 0 22.30 33.020 5.25 22.65 520 520 0.0000
 10 22.30 33.050 5.31 10 22.30 33.050 5.31 22.67 518 518 0.0519

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

15 22.30 33.326 5.33
 20 22.26 33.377 5.33 22.93 494 494 0.1026
 30 21.50 33.476 5.56 23.23 465 466 0.1506
 50 19.82 33.017 5.67 23.92 399 400 0.2372
 75 17.15 33.935 5.76 24.68 327 329 0.3284
 100 16.21 34.016 5.50 24.96 300 303 0.4074

KOREA ,JI RI SAN , STATION 208-04 , 35 11.1. N, 127 50.7. E, OCT. 8,1982, 15:55 LST, DEPTH 143 , COLOR 3, TRANS. 16.0.
 WAVE NE 3, SWELL NE 2, WIND NE 5, BARO 1013. , AIR TEMP. DRY 23.5, WET , CLOUD. TYPE CU, AMT 05, WEATHER BC.

0 22.24 32.806 5.39 0 22.24 32.806 5.39 22.50 534 534 0.0000
 10 22.26 32.763 5.13 10 22.26 32.763 5.13 22.47 538 538 0.0536
 15 22.47 33.113 5.13 20 22.30 33.309 5.27 22.87 499 500 0.1055
 20 22.30 33.309 ***** 30 21.03 33.397 5.92 23.28 460 460 0.1536
 30 21.03 33.397 5.92 50 17.67 33.785 5.58 24.44 350 351 0.2348
 40 19.87 33.570 5.87 75 16.73 33.909 4.99 24.75 319 321 0.3189
 52 17.23 33.828 5.53 100 16.04 34.022 5.06 25.00 296 298 0.3965
 88 16.46 33.955 4.69
 120 15.35 34.134 5.68

KOREA ,JI RI SAN , STATION 208-05 , 35-04.8. N, 130-02.0. E, OCT. 8,1982, 14:30 KST, DEPTH 140 , COLOR 3, TRANS. 16.0,
 WAVE NE 3, SWELL NE 2, WIND NE 4, BARO 1014. , AIR TEMP. DRY 25.0, WET , CLOUD. TYPE , AMT , WEATHER B ,
 0 22.34 33.107 5.67 0 22.34 33.107 5.67 22.70 515 515 0.0000
 10 22.41 33.060 5.23 10 22.41 33.060 5.23 22.65 520 520 0.0518
 17 22.50 33.095 5.33 20 22.61 33.204 5.37 22.70 515 516 0.1036
 24 22.76 33.351 5.43 30 22.39 33.311 5.59 22.84 502 502 0.1545

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

40 21.78 33.246 5.87
55 18.26 33.691 5.73
76 16.81 33.951 *****
91 16.06 34.202 5.58
138 10.66 34.315 5.58

KOREA , JI RI SAN , STATION 208-06 , 34-58.2. N, 130-11.9. E, OCT. 8-1982, 13:10 KST, DEPTH 135 , COLOR 3, TRANS. 16.0,

WAVE NE 2, SWELL NE 2, WIND NE 4, BARO 1014. , AIR TEMP. DRY 25.0, WET , CLOUD. TYPE , AMT , WEATHER B ,

0 22.16 33.067 5.63 0 22.16 33.067 5.63 22.72 513 513 0.0000
10 22.20 33.037 5.63 10 22.20 33.037 5.63 22.69 516 516 0.0515
19 22.70 33.463 5.72 20 22.69 33.465 5.71 22.87 499 499 0.1023
27 22.67 33.485 5.66 30 22.40 33.486 5.63 22.97 489 490 0.1518
43 21.23 33.493 5.53 50 19.78 33.692 5.63 23.84 407 408 0.2417
63 17.10 34.062 5.82 75 16.13 34.243 5.69 25.15 282 284 0.3282
81 15.65 34.334 5.63 100 14.33 34.350 5.68 25.63 236 239 0.3936
109 13.71 34.352 5.71

KOREA , JI RI SAN , STATION 208-07 , 34-52.0. N, 130-20.9. E, OCT. 8-1982, 11:50 KST, DEPTH 130 , COLOR 3, TRANS. 15.0,

WAVE NE 2, SWELL NE 2, WIND NE 3, BARO 1014. , AIR TEMP. DRY 25.0, WET , CLOUD. TYPE , AMT , WEATHER B ,

0 22.05 32.972 5.77 0 22.05 32.972 5.77 22.68 517 517 0.0000
10 22.09 32.941 5.87 10 22.09 32.941 5.87 22.65 520 520 0.0519
18 22.64 ***** 5.68 20 22.66 33.259 5.67 22.73 513 513 0.1036
26 22.72 33.451 ***** 30 21.94 33.497 5.67 23.11 476 477 0.1531
42 19.60 33.636 5.67 50 18.74 33.794 5.66 24.18 374 375 0.2384
62 17.44 34.012 5.65 75 16.84 34.204 5.80 24.95 300 302 0.3232
86 16.33 34.351 5.93 100 15.39 34.335 5.92 25.39 259 262 0.3938
109 14.77 34.326 5.92

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY

KOREA , J1 RI SAN , STATION 208-08 , 34-45.3. N, 130-30.6. E, OCT. 8.1982, 10:20 KST, DEPTH 130 , COLOR 3, TRANS. 14.0.
 WAVE NE 2, SWELL NE 2, WIND NE 3, BARO 1013. , AIR TEMP. DRY 25.0, WET , CLOUD. TYPE CU, AMT 02, WEATHER B ,

0	22.31	33.233	5.43							0	22.31	33.233	5.43	22.81	505	505	0.0000
10	22.38	33.250	5.72							10	22.38	33.250	5.72	22.80	506	506	0.0505
20	22.54	33.362	5.82							20	22.54	33.362	5.82	22.84	502	502	0.1010
28	22.54	33.369	5.53							30	22.40	33.373	5.53	22.89	498	498	0.1511
47	21.27	33.410	5.53							50	20.78	33.457	5.56	23.39	449	450	0.2460
69	17.73	33.755	5.82							75	17.42	33.866	5.81	24.56	338	340	0.3449
93	16.51	34.202	5.79							100	16.27	34.259	5.71	25.13	284	286	0.4233
107	16.03	34.316	5.63														

KOREA , J1 RI SAN , STATION 208-07 , 34-38.9. N, 130-40.5. E, OCT. 8.1982, 09:10 KST, DEPTH 130 , COLOR 3, TRANS. 16.0.
 WAVE NE 2, SWELL NE 1, WIND NE 3, BARO 1013. , AIR TEMP. DRY 21.8, WET , CLOUD. TYPE CU, AMT 03, WEATHER BC,

0	22.50	33.263	5.24							0	22.50	33.263	5.24	22.78	508	508	0.0000
10	22.50	33.222	5.82							10	22.50	33.222	5.82	22.75	511	511	0.0509
19	22.53	33.229	5.53							20	22.56	33.251	5.52	22.75	511	511	0.1021
28	22.88	33.429	5.45							30	22.87	33.445	5.48	22.81	505	506	0.1530
47	22.81	33.583	5.82							50	22.12	33.651	5.83	23.18	470	471	0.2508
66	18.46	34.016	5.89							75	17.52	34.164	5.79	24.76	319	320	0.3498
86	16.38	34.347	5.67							100	16.33	34.407	5.67	25.23	274	277	0.4246
106	16.31	34.433	5.67														

12月(December)

KOREA , J1 RI SAN , STATION 208-01 , 35-28.5. N, 129-27.3. E, DEC.13.1982, 13:10 KST, DEPTH 70 , COLOR 5, TRANS. 12.0.
 WAVE SW 1, SWELL SW 2, WIND SW 2, BARO 1029. , AIR TEMP. DRY 4.5, WET , CLOUD. TYPE CI, AMT 02, WEATHER B ,

0	14.97	34.154	5.31							0	14.97	34.154	5.31	25.34	264	263	0.0000
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OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY
10	14.92	34.095	5.60							10	14.92	34.095	5.60	25.31	267	267	0.0265
20	14.89	34.136	6.02							20	14.89	34.136	6.02	25.34	263	263	0.0531
30	14.88	34.090	5.93							30	14.88	34.090	5.93	25.31	266	267	0.0796
50	14.45	34.039	5.76							50	14.45	34.039	5.76	25.36	261	262	0.1327
68	13.75	34.053	5.29														
KOREA ,JI RI SAN , STATION 208-02 , 35-24.3. N, 129-33.8. E, DEC.13.1982, 14:15 KST, DEPTH 130 , COLOR 4, TRANS. 15.0,																	
WAVE SW 1, SWELL SW 1, WIND SW 3, BARO 1029. , AIR TEMP. DRY 4.6, WET , CLOUD. TYPE CI, AMT 02, WEATHER B ,																	
0	17.49	34.310	5.65							0	17.49	34.310	5.65	24.88	307	307	0.0000
10	17.61	34.298	5.61							10	17.61	34.298	5.61	24.84	311	311	0.0309
20	17.63	34.297	5.93							20	17.63	34.297	5.93	24.84	311	312	0.0621
30	17.60	34.300	5.72							30	17.60	34.300	5.72	24.85	310	311	0.0932
50	16.12	34.277	5.60							50	16.12	34.277	5.60	25.18	279	280	0.1525
75	16.16	*****	5.49							75	16.16	34.295	5.49	25.18	279	280	0.2227
94	12.28	34.309	5.49							100	10.96	34.278	5.51	26.24	179	180	0.2604
125	5.47	34.153	5.60							125	5.47	34.153	5.60	26.97	109	110	0.3169
KOREA ,JI RI SAN , STATION 208-03 , 35-17.8. N, 129-42.9. E, DEC.13.1982, 15:40 KST, DEPTH 150 , COLOR 4, TRANS. 14.0,																	
WAVE NW 1, SWELL NW 1, WIND NW 3, BARO 1029. , AIR TEMP. DRY 4.6, WET , CLOUD. TYPE CU, AMT 03, WEATHER BC,																	
0	18.02	34.386	5.80							0	18.02	34.386	5.80	24.81	314	314	0.0000
10	18.03	34.322	5.80							10	18.03	34.322	5.80	24.76	319	319	0.0316
20	17.99	34.316	5.95							20	17.99	34.316	5.95	24.77	318	319	0.0635
30	17.99	34.334	5.72							30	17.99	34.334	5.72	24.78	317	318	0.0954
50	17.91	34.321	5.69							50	17.91	34.321	5.69	24.79	316	317	0.1590
75	16.88	34.325	5.29							75	16.88	34.325	5.29	25.04	292	294	0.2356

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

92 14.08 34.316 5.49
 130 9.30 34.250 5.50
 142 6.25 34.157 5.29

KOREA , JI RI SAN , STATION 208-04 , 35-11.1. N, 129-52.7. E. DEC.13.1982, 17:05 KST, DEPTH 143 , COLOR , TRANS.
 WAVE W 1, SWELL W 1, WIND W 2, BARO 1029. , AIR TEMP. DRY 4.2, WET , CLOUD. TYPE , AMT , WEATHER B ,

0 17.64 34.229 5.61 0 17.64 34.229 5.61 24.78 317 316 0.0000
 10 17.59 34.222 5.60 10 17.59 34.222 5.60 24.79 316 316 0.0316
 20 17.66 34.233 5.68 20 17.66 34.233 5.68 24.78 317 317 0.0633
 30 17.68 34.225 5.67 30 17.68 34.225 5.67 24.77 318 318 0.0951
 50 17.41 34.193 5.69 50 17.41 34.193 5.69 24.81 314 315 0.1586
 69 17.21 34.197 5.80 75 17.17 34.185 5.83 24.86 309 311 0.2369
 89 17.08 34.157 5.90 100 16.35 34.153 5.67 25.03 293 296 0.3129
 104 16.09 34.152 5.59
 119 14.71 34.130 5.38

KOREA , JI RI SAN , STATION 208-05 , 35-04.8. N, 130-02.0. E, DEC.13.1982, 18:30 KST, DEPTH 140 , COLOR , TRANS.
 WAVE NW 1, SWELL NW 1, WIND NW 3, BARO 1029. , AIR TEMP. DRY 5.0, WET , CLOUD. TYPE , AMT , WEATHER BC,

0 17.20 34.149 5.52 0 17.20 34.149 5.52 24.83 312 312 0.0000
 10 17.26 34.148 5.60 10 17.26 34.148 5.60 24.81 314 314 0.0313
 20 17.24 34.145 5.55 20 17.24 34.145 5.55 24.82 314 314 0.0627
 30 17.36 34.150 5.65 30 17.36 34.150 5.65 24.79 316 316 0.0943
 50 17.26 34.157 5.80 50 17.26 34.157 5.80 24.82 313 314 0.1575
 75 17.27 34.147 5.73 75 17.27 34.147 5.73 24.81 314 316 0.2364
 105 16.99 34.145 5.85 100 16.93 34.145 5.83 24.89 307 309 0.3146
 117 14.74 34.156 5.38 125 13.46 34.159 5.40 25.66 233 236 0.3829
 124 11.20 34.145 5.43

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY

KOREA .JI RI SAN , STATION 208-06 , 34-58.2. N, 130-11.9. E, DEC.13.1982, 19:55 KST, DEPTH 135 , COLOR , TRANS. ,
 WAVE NW 1, SWELL NW 1, WIND NW 3, BARO 1029. , AIR TEMP. DRY 5.0, WET , CLOUD. TYPE , AMT , WEATHER BC,
 0 16.72 34.149 5.58 0 16.72 34.149 5.58 24.94 302 301 0.0000
 10 17.05 34.119 5.81 10 17.05 34.119 5.81 24.84 311 311 0.0306
 20 17.07 34.125 5.65 20 17.07 34.125 5.65 24.84 311 311 0.0618
 30 17.08 34.117 5.50 30 17.08 34.117 5.50 24.83 312 313 0.0930
 50 16.88 34.121 5.70 50 16.88 34.121 5.70 24.88 307 308 0.1552
 75 16.75 34.131 5.90 75 16.75 34.131 5.90 24.92 304 305 0.2321
 100 16.66 34.120 6.00 100 16.66 34.120 6.00 24.93 302 305 0.3085
 118 12.90 34.161 5.72

KOREA .JI RI SAN , STATION 208-07 , 34-52.0. N, 130-20.9. E, DEC.13.1982, 21:15 KST, DEPTH 130 , COLOR , TRANS. ,
 WAVE NW 1, SWELL NW 1, WIND NW 3, BARO 1030. , AIR TEMP. DRY 5.0, WET , CLOUD. TYPE , AMT , WEATHER BC,
 0 18.15 34.279 5.45 0 18.15 34.279 5.45 24.70 325 324 0.0000
 10 18.22 34.319 5.69 10 18.22 34.319 5.69 24.71 323 324 0.0324
 20 18.22 34.292 **** 20 18.22 34.292 5.59 24.69 325 326 0.0649
 31 18.25 34.288 5.50 30 18.24 34.288 5.50 24.68 326 327 0.0976
 52 18.25 ***** 50 18.25 34.298 5.77 24.69 326 327 0.1631
 80 18.25 34.307 5.67 75 18.25 34.305 5.69 24.69 325 327 0.2450
 110 17.72 34.252 5.79 100 17.89 34.270 5.75 24.75 319 322 0.3263
 124 12.42 34.223 5.48

KOREA .JI RI SAN , STATION 208-08 , 34-45.3. N, 130-30.6. E, DEC.13.1982, 22:35 KST, DEPTH 130 , COLOR , TRANS. ,
 WAVE NW 1, SWELL NW 1, WIND NW 3, BARO 1030. , AIR TEMP. DRY 6.0, WET , CLOUD. TYPE , AMT , WEATHER C ,
 0 18.18 34.295 5.59 0 18.18 34.295 5.59 24.70 324 324 0.0000
 10 18.27 34.290 5.58 10 18.27 34.290 5.58 24.68 327 327 0.0325

OBSERVED										INTERPOLATED					CALCULATED		
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
20	18.27	34.295	5.89							20	18.27	34.295	5.89	24.68	326	327	0.0653
30	18.27	34.290	5.49							30	18.27	34.290	5.49	24.68	327	327	0.0980
50	18.27	34.293	5.49							50	18.27	34.293	5.49	24.68	327	328	0.1636
85	18.28	34.289	5.90							75	18.27	34.290	5.78	24.68	327	329	0.2459
101	18.21	34.287	5.69							100	18.21	34.287	5.70	24.69	326	328	0.3282
127	11.29	34.223	5.47							125	11.82	34.227	5.48	26.04	197	200	0.3943

KOREA , JI RI SAN , STATION 208-09 , 34-38.9. N, 130-40.5. E, DEC.14.1982, 23:55 KST, DEPTH 130 , COLOR , TRANS. ,
 WAVE NW 2, SWELL NW 1, WIND NW 3, BARO 1030. , AIR TEMP. DRY 6.5, WET , CLOUD. TYPE , AMT , WEATHER C ,

0	17.58	34.187	5.45							0	17.58	34.187	5.45	24.77	318	318	0.0000
10	17.65	34.180	****							10	17.65	34.180	5.68	24.74	320	320	0.0319
20	17.69	34.168	5.92							20	17.69	34.168	5.92	24.73	322	322	0.0641
30	17.67	34.191	5.72							30	17.67	34.191	5.72	24.75	320	321	0.0963
50	17.68	34.187	5.89							50	17.68	34.187	5.89	24.74	321	322	0.1606
77	17.63	34.169	5.60							75	17.63	34.170	5.62	24.74	321	323	0.2413
100	17.50	34.117	5.34							100	17.50	34.117	5.34	24.73	321	324	0.3223
123	17.16	34.113	5.31														

南 海 海 洋 調 查 成 績

OCEANOGRAPHIC DATA: SOUTHERN WATERS

1 9 8 2

207線 海洋觀測 成績

Oceanographic Data. Line 207

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY

2月(February)

KOREA ,TAE BAEK SAN , STATION 207-01 , 35-01.3. N, 129-07.2. E, FEB. 4.1982, 15:15 KST, DEPTH 82 , COLOR 4, TRANS. 7.0, WAVE SE 2, SWELL SE 2, WIND SE 3, BARO 1016. , AIR TEMP. DRY 5.4, WET . , CLOUD. TYPE AS, AMT 10, WEATHER C ,																	
0	12.08	34.460	*****							0	12.08	34.460	*****	26.17	185	185	0.0000
10	12.09	34.460	*****							10	12.09	34.460	*****	26.17	185	185	0.0185
20	12.12	34.440	*****							20	12.12	34.440	*****	26.15	187	187	0.0371
30	12.07	34.460	*****							30	12.07	34.460	*****	26.17	185	185	0.0558
50	12.06	34.430	*****							50	12.06	34.430	*****	26.15	187	188	0.0932
75	11.88	34.440	*****							75	11.88	34.440	*****	26.19	183	184	0.1398
KOREA ,TAE BAEK SAN , STATION 207-02 , 34-57.6. N, 129-11.2. E, FEB. 6.1982, 11:30 KST, DEPTH 103 , COLOR 3, TRANS. 13.0, WAVE NW 2, SWELL NW 1, WIND NW 2, BARO 1015. , AIR TEMP. DRY 4.2, WET . , CLOUD. TYPE AC, AMT 01, WEATHER B ,																	
0	12.60	34.470	*****							0	12.60	34.470	*****	26.08	194	193	0.0000
10	12.56	34.460	*****							10	12.56	34.460	*****	26.08	194	194	0.0194
20	12.54	34.480	*****							20	12.54	34.480	*****	26.10	192	192	0.0387
30	12.55	34.470	*****							30	12.55	34.470	*****	26.09	193	193	0.0580
50	12.61	34.450	*****							50	12.61	34.450	*****	26.06	195	196	0.0971
75	12.55	34.460	*****							75	12.55	34.460	*****	26.08	194	195	0.1461
100	11.99	34.430	*****							100	11.99	34.430	*****	26.16	185	188	0.1941
KOREA ,TAE BAEK SAN , STATION 207-03 , 34-53.9. N, 129-15.4. E, FEB. 6.1982, 12:25 KST, DEPTH 115 , COLOR 3, TRANS. 14.0, WAVE NW 2, SWELL NW 1, WIND NW 3, BARO 1019. , AIR TEMP. DRY 4.6, WET . , CLOUD. TYPE AC, AMT 02, WEATHER B ,																	
0	13.52	34.510	*****							0	13.52	34.510	*****	25.92	208	208	0.0000

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

10	13.49	34.500	*****							10	13.49	34.500	*****	25.92	208	208	0.0208
20	13.00	34.500	*****							20	13.00	34.500	*****	26.02	199	199	0.0413
30	12.53	34.480	*****							30	12.53	34.480	*****	26.10	192	192	0.0609
50	12.59	34.500	*****							50	12.59	34.500	*****	26.10	191	192	0.0994
75	12.51	34.480	*****							75	12.51	34.480	*****	26.10	191	193	0.1477
100	11.88	34.440	*****							100	11.88	34.440	*****	26.19	183	185	0.1950
110	11.67	34.390	*****														

KOREA ,TAE BAEK SAN , STATION 207-04 , 34-50.2. N, 129-19.5. E, FEB. 6.1982, 13:20 KST, DEPTH 230 , COLOR 2, TRANS. 14.0,
 WAVE NW 2, SWELL NW 1, WIND NW 3, BARO 1018.5, AIR TEMP. DRY 4.1, WET , CLOUD. TYPE AC, AMT 02, WEATHER B ,

0	14.50	34.570	*****							0	14.50	34.570	*****	25.76	223	223	0.0000
10	14.31	34.560	*****							10	14.31	34.560	*****	25.80	220	220	0.0222
20	14.24	34.560	*****							20	14.24	34.560	*****	25.81	219	219	0.0442
30	14.24	34.550	*****							30	14.24	34.550	*****	25.80	220	220	0.0662
50	14.23	34.550	*****							50	14.23	34.550	*****	25.80	219	221	0.1104
75	14.26	34.570	*****							75	14.26	34.570	*****	25.81	219	220	0.1656
102	14.26	34.550	*****							100	14.26	34.551	*****	25.80	220	222	0.2211
120	13.72	34.510	*****							125	13.59	34.504	*****	25.90	210	213	0.2756
137	13.30	34.490	*****							150	11.43	34.440	*****	26.27	175	178	0.3247
176	7.71	34.340	*****														
195	7.57	34.330	*****														

KOREA ,TAE BAEK SAN , STATION 207-05 , 34-48.0. N, 129-21.8. E, FEB. 6.1982, 14:15 KST, DEPTH 160 , COLOR 2, TRANS. 14.0,
 WAVE NW 3, SWELL NW 2, WIND NW 4, BARO 1017. , AIR TEMP. DRY 4.8, WET , CLOUD. TYPE AC, AMT 02, WEATHER B ,

0	14.22	34.540	*****							0	14.22	34.540	*****	25.80	220	220	0.0000
10	14.16	34.520	*****							10	14.16	34.520	*****	25.80	220	220	0.0220

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
20	14.17	34.530	*****							20	14.17	34.530	*****	25.80	220	220	0.0441
30	14.23	34.550	*****							30	14.23	34.550	*****	25.80	219	220	0.0661
49	14.25	34.550	*****							50	14.24	34.550	*****	25.80	220	221	0.1103
74	14.22	34.570	*****							75	14.21	34.569	*****	25.82	218	219	0.1654
101	14.13	34.550	*****							100	14.13	34.550	*****	25.83	217	220	0.2205
125	13.98	34.580	*****							125	13.98	34.580	*****	25.88	212	215	0.2750
149	13.15	34.600	*****														

4月(April)

KOREA ,TAE BAEK SAN , STATION 207-01 , 35-01.3. N, 129-07.2. E, APR. 6.1982, 14:15 KST, DEPTH 84 , COLOR 7, TRANS. 6.0,

WAVE N 1, SWELL N 1, WIND N 1, BARO 1016. , AIR TEMP. DRY 16.2, WET , CLOUD. TYPE NS, AMT 10, WEATHER D ,																	
0	12.83	34.430	*****							0	12.83	34.430	*****	26.00	201	201	0.0000
10	12.87	34.440	*****							10	12.87	34.440	*****	26.00	201	201	0.0201
20	12.93	34.450	*****							20	12.93	34.450	*****	26.00	201	202	0.0403
30	12.94	34.480	*****							30	12.94	34.480	*****	26.02	199	200	0.0604
50	13.01	34.500	*****							50	13.01	34.500	*****	26.02	199	200	0.1005
75	12.29	34.480	*****							75	12.29	34.480	*****	26.14	187	189	0.1492

DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
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KOREA. ,TAE BAEK SAN , STATION 207-02 , 34-57.6. N, 129-11.2. E, APR. 6.1982, 15:25 KST, DEPTH 103 , COLOR 7, TRANS. 8.0,

KOREA: TAEBAEK SAN , STATION 207-02 , 34-37.8. N, 127-11.2. E, MAR. 01, 2001																		
WAVE N	1,	SWELL N	1,	WIND N	1,	BARO	1017.	AIR TEMP.	DRY	13.8,	WET		CLOUD.	TYPE NS,	AMT	10,	WEATHER.	D ,
0		13.72		34.520	*****					0	13.72		34.520	*****	25.89	212	211	0.0000
10		13.61		34.540	*****					10	13.61		34.540	*****	25.93	208	208	0.0210
20		13.59		34.530	*****					20	13.59		34.530	*****	25.92	208	208	0.0418
70		13.57		34.530	*****					70	13.57		34.530	*****	25.93	208	208	0.0627
50		13.51		34.540	*****					50	13.51		34.540	*****	25.95	206	207	0.1043

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
75	13.44	34.560	*****							75	13.44	34.560	*****	25.98	203	205	0.1559
100	12.80	34.520	*****							100	12.80	34.520	*****	26.08	194	196	0.2061
FOREA , TAE BAEK SAN , STATION 207-03 , 34-53.9. N, 129-15.4. E, APR. 6.1982, 16:25 KST, DEPTH 116 , COLOR 7, TRANS. 8.0,																	
WAVE N 1, SWELL N 1, WIND N 1, BARO 1016. , AIR TEMP. DRY 13.3, WET , CLOUD. TYPE NS, AMT 10, WEATHER D ,																	
0	14.34	34.580	*****							0	14.34	34.580	*****	25.80	219	219	0.0000
10	14.28	34.580	*****							10	14.28	34.580	*****	25.82	218	218	0.0219
20	14.30	34.610	*****							20	14.30	34.610	*****	25.84	216	217	0.0437
30	14.27	34.580	*****							30	14.27	34.580	*****	25.82	218	219	0.0655
50	14.25	34.570	*****							50	14.25	34.570	*****	25.82	218	219	0.1094
75	13.91	34.530	*****							75	13.91	34.530	*****	25.86	215	216	0.1640
100	13.31	34.510	*****							100	13.31	34.510	*****	25.96	204	207	0.2169
110	12.92	34.480	*****														
FOREA , TAE BAEK SAN , STATION 207-04 , 34-50.2. N, 129-19.5. E, APR. 6.1982, 17:25 KST, DEPTH 213 , COLOR 7, TRANS. 8.5,																	
WAVE N 1, SWELL N 1, WIND N 1, BARO 1014. , AIR TEMP. DRY 12.9, WET , CLOUD. TYPE NS, AMT 10, WEATHER R ,																	
0	14.63	34.570	*****							0	14.63	34.570	*****	25.73	226	226	0.0000
10	14.67	34.590	*****							10	14.67	34.590	*****	25.74	225	225	0.0226
20	14.58	34.630	*****							20	14.58	34.630	*****	25.79	221	221	0.0449
30	14.38	34.640	*****							30	14.38	34.640	*****	25.84	216	216	0.0669
50	14.07	34.510	*****							50	14.07	34.510	*****	25.81	219	220	0.1106
75	13.69	34.470	*****							75	13.69	34.470	*****	25.86	215	216	0.1653
100	13.05	34.430	*****							100	13.05	34.430	*****	25.96	205	207	0.2184
125	12.46	34.490	*****							125	12.46	34.490	*****	26.12	190	192	0.2685
150	12.31	34.440	*****							150	12.31	34.440	*****	26.11	191	194	0.3169
200	11.37	34.560	*****							200	11.37	34.560	*****	26.38	165	169	0.4079

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA ,TAE BAEK SAN , STATION 207-05 , 34-48.0. N, 129-21.8. E, APR. 6.1982, 18:25 KST, DEPTH 160 , COLOR 7, TRANS. 8.0,

WAVE N 1, SWELL N 1, WIND N 1, BARO 1014. , AIR TEMP. DRY 11.5, WET , CLOUD. TYPE NS, AMT 10, WEATHER R ,

0 14.80 34.590 ***** 0 14.80 34.590 ***** 25.71 228 228 0.0000

10 14.79 34.570 ***** 10 14.79 34.570 ***** 25.70 229 229 0.0229

20 14.69 34.560 ***** 20 14.69 34.560 ***** 25.71 228 228 0.0458

30 14.62 34.530 ***** 30 14.62 34.530 ***** 25.71 229 229 0.0687

50 14.36 34.550 ***** 50 14.36 34.550 ***** 25.78 222 223 0.1141

75 14.13 34.540 ***** 75 14.13 34.540 ***** 25.82 218 220 0.1696

100 13.91 34.530 ***** 100 13.91 34.530 ***** 25.86 215 217 0.2243

125 13.53 34.510 ***** 125 13.53 34.510 ***** 25.92 209 211 0.2780

150 13.30 34.510 ***** 150 13.30 34.510 ***** 25.97 204 208 0.3305

6月(June)

KOREA ,TAE BAEK SAN , STATION 207-01 , 35-01.3. N, 129-07.2. E, JUN.18.1982, 10:20 KST, DEPTH 84 , COLOR 2, TRANS. 12.0,

WAVE NE 3, SWELL NE 2, WIND NE 3, BARO 1000.8, AIR TEMP. DRY 20.6, WET , CLOUD. TYPE CI, AMT 07, WEATHER BC,

0 19.81 33.930 ***** 0 19.81 33.930 ***** 24.01 390 390 0.0000

10 19.70 33.940 ***** 10 19.70 33.940 ***** 24.05 387 387 0.0388

20 18.17 33.980 ***** 20 18.12 33.980 ***** 24.48 346 346 0.0755

30 17.28 34.000 ***** 30 17.28 34.000 ***** 24.70 325 326 0.1092

50 15.89 34.030 ***** 50 15.89 34.030 ***** 25.04 292 293 0.1711

75 14.60 ***** 75 14.60 ***** ***** *** *****

YOEKA ,TAE BAEK SAN , STATION 207-02 , 34-57.6. N, 129-11.2. E, JUN.18.1982, 09:00 KST, DEPTH 103 , COLOR 2, TRANS. 15.0,

WAVE NE 4, SWELL NE 2, WIND NE 3, BARO 1004. , AIR TEMP. DRY 19.8, WET , CLOUD. TYPE CI, AMT 07, WEATHER BC,

0 20.01 33.920 ***** 0 20.01 33.920 ***** 23.95 396 396 0.0000

10 19.98 33.900 ***** 10 19.98 33.900 ***** 23.94 397 397 0.0396

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

20	19.80	33.900	*****							20	19.80	33.900	*****	23.99	392	392	0.0791
30	16.58	33.990	*****							30	16.58	33.990	*****	24.85	310	311	0.1143
50	16.51	33.980	*****							50	16.51	33.980	*****	24.86	309	310	0.1765
75	15.61	33.910	*****							75	15.61	33.910	*****	25.01	295	297	0.2525
100	14.78	33.900	*****							100	14.78	33.900	*****	25.19	278	281	0.3248

FOREA ,TAE BAEK SAN , STATION 207-03 , 34-53.9. N, 129-15.4. E, JUN.18.1982, 07:55 FST, DEPTH 115 , COLOR 2, TRANS. 16.0,
 WAVE NE 4, SWELL NE 2, WIND NE 4, BARO 1003.8, AIR TEMP. DRY 19.6, WET , CLOUD. TYPE AS, AMT 08, WEATHER C ,

0	20.80	33.990	*****							0	20.80	33.990	*****	23.80	411	410	0.0000
10	20.82	33.970	*****							10	20.82	33.970	*****	23.77	413	413	0.0412
20	20.55	33.940	*****							20	20.55	33.940	*****	23.82	408	408	0.0823
30	18.74	33.930	*****							30	18.74	33.930	*****	24.28	364	365	0.1210
50	16.14	34.030	*****							50	16.14	34.030	*****	24.98	297	299	0.1874
75	14.61	34.090	*****							75	14.61	34.090	*****	25.37	261	263	0.2577
100	14.33	34.260	*****							100	14.33	34.260	*****	25.56	243	245	0.3212
110	14.37	34.280	*****														

FOREA ,TAE BAEK SAN , STATION 207-04 , 34-50.2. N, 129-19.5. E, JUN.18.1982, 06:40 KST, DEPTH 215 , COLOR 2, TRANS. ,
 WAVE NE 4, SWELL NE 2, WIND NE 4, BARO 1003. , AIR TEMP. DRY 19.6, WET , CLOUD. TYPE AS, AMT 07, WEATHER BC,

0	21.70	33.990	*****							0	21.70	33.990	*****	23.55	434	434	0.0000
10	20.98	33.970	*****							10	20.98	33.970	*****	23.73	417	417	0.0425
20	18.03	34.090	*****							20	18.03	34.090	*****	24.58	336	336	0.0802
30	16.62	34.230	*****							30	16.62	34.230	*****	25.03	293	294	0.1118
50	15.65	34.270	*****							50	15.65	34.270	*****	25.28	269	270	0.1683
75	14.58	34.300	*****							75	14.58	34.300	*****	25.54	245	247	0.2331
100	14.68	34.320	*****							100	14.68	34.320	*****	25.53	245	248	0.2950

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY

125	14.49	34.330	*****							125	14.49	34.330	*****	25.58	241	244	0.3566
150	14.30	34.320	*****							150	14.30	34.320	*****	25.61	238	241	0.4174
210	10.64	34.230	*****							200	11.25	34.245	*****	26.16	186	190	0.5255

KOREA ,TAE BAEK SAN , STATION 207-05 , 34-48.0. N, 129-21.8. E, JUN.18.1982, 05:50 KST, DEPTH 160 , COLOR 2, TRANS. ,

WAVE NE 4, SWELL NE 2, WIND , BARO 1003. , AIR TEMP. DRY 19.8, WET , CLOUD. TYPE AS, AMT 07, WEATHER BC,

0	21.42	34.000	*****							0	21.42	34.000	*****	23.63	426	426	0.0000
10	21.10	33.990	*****							10	21.10	33.990	*****	23.71	419	419	0.0422
20	20.03	33.970	*****							20	20.03	33.970	*****	23.98	393	393	0.0828
30	18.56	34.060	*****							30	18.56	34.060	*****	24.43	350	351	0.1201
50	15.52	34.130	*****							50	15.52	34.130	*****	25.20	277	278	0.1831
75	15.00	34.130	*****							75	15.00	34.130	*****	25.32	266	268	0.2514
100	14.70	34.320	*****							100	14.70	34.320	*****	25.53	246	248	0.3160
125	14.60	34.320	*****							125	14.60	34.320	*****	25.55	244	247	0.3781
152	14.50	34.320	*****							150	14.50	34.320	*****	25.57	242	246	0.4397

8月(August)

KOREA ,TAE BAEK SAN , STATION 207-01 , 35-01.3. N, 129-07.2. E, AUG. 4.1982, 15:00 KST, DEPTH 84 , COLOR 6, TRANS. 4.0,

WAVE S 3, SWELL S 2, WIND S 3, BARO 1003. , AIR TEMP. DRY 25.6, WET , CLOUD. TYPE CI, AMT 01, WEATHER B ,

0	24.34	31.440	*****							0	24.34	31.440	*****	20.87	691	690	0.0000
10	23.39	*****	*****							10	23.39	32.235	*****	21.75	607	607	0.0648
20	20.86	33.030	*****							20	20.86	33.030	*****	23.05	482	482	0.1193
30	17.07	33.780	*****							30	17.07	33.780	*****	24.58	336	337	0.1603
50	15.94	33.870	*****							50	15.94	33.870	*****	24.91	305	306	0.2247
75	13.45	34.230	*****							75	13.45	34.230	*****	25.72	228	229	0.2917

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA , TAE BAEK SAN , STATION 207-02 , 34-57.6. N, 129-11.2. E, AUG. 4.1982, 16:10 KST, DEPTH 103 , COLOR 4, TRANS. 17.0,
 WAVE SW 3, SWELL SW 2, WIND SW 3, BARO 1002.6, AIR TEMP. DRY 26.4, WET , CLOUD. TYPE CI, AMT 01, WEATHER B ,

0	24.68	32.130	*****							0	24.68	32.130	*****	21.29	650	650	0.0000
10	23.91	32.360	*****							10	23.91	32.360	*****	21.69	612	612	0.0631
20	18.44	33.470	*****							20	18.44	33.470	*****	24.01	390	391	0.1133
30	17.54	33.720	*****							30	17.54	33.720	*****	24.42	351	352	0.1505
50	15.53	33.980	*****							50	15.53	33.980	*****	25.08	288	289	0.2147
75	14.33	34.260	*****							75	14.33	34.260	*****	25.56	243	244	0.2815
100	14.54	34.380	*****							100	14.54	34.380	*****	25.61	238	241	0.3422

KOREA , TAE BAEK SAN , STATION 207-03 , 34-53.9. N, 129-15.4. E, AUG. 4.1982, 17:00 KST, DEPTH 120 , COLOR 4, TRANS. 18.0,
 WAVE SW 3, SWELL SW 2, WIND SW 3, BARO 1002.5, AIR TEMP. DRY 26.4, WET , CLOUD. TYPE CI, AMT 02, WEATHER B ,

0	25.30	31.870	*****							0	25.30	31.870	*****	20.91	687	687	0.0000
10	25.23	31.910	*****							10	25.23	31.910	*****	20.96	682	682	0.0684
20	20.37	32.030	*****							20	20.37	32.030	*****	22.42	542	542	0.1297
30	17.56	33.500	*****							30	17.56	33.500	*****	24.25	368	368	0.1753
50	15.45	33.810	*****							50	15.45	33.810	*****	24.97	299	300	0.2422
75	14.29	34.220	*****							75	14.29	34.220	*****	25.54	245	247	0.3106
100	14.39	34.350	*****							100	14.39	34.350	*****	25.62	237	240	0.3715
115	14.35	34.350	*****														

KOREA , TAE BAEK SAN , STATION 207-04 , 34-50.2. N, 129-19.5. E, AUG. 4.1982, 18:00 KST, DEPTH 215 , COLOR 3, TRANS. 17.0,
 WAVE SW 2, SWELL SW 2, WIND SW 3, BARO 1002.2, AIR TEMP. DRY 26.8, WET , CLOUD. TYPE CI, AMT 02, WEATHER B ,

0	25.10	31.990	*****							0	25.10	31.990	*****	21.06	673	672	0.0000
10	25.07	32.080	*****							10	25.07	32.080	*****	21.14	665	665	0.0669
20	24.79	32.130	*****							20	24.79	32.130	*****	21.26	654	654	0.1329

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
30	22.83	32.440	*****							30	22.83	32.440	*****	22.06	576	577	0.1945
50	16.93	33.620	*****							50	16.93	33.620	*****	24.49	345	346	0.2869
75	14.34	34.030	*****							75	14.34	34.030	*****	25.38	260	261	0.3629
100	14.28	34.090	*****							100	14.28	34.090	*****	25.44	254	256	0.4278
125	14.06	34.240	*****							125	14.06	34.240	*****	25.60	239	242	0.4902
150	7.24	34.320	*****							150	7.24	34.320	*****	26.87	119	121	0.5356
200	4.25	34.340	*****							200	4.25	34.340	*****	27.25	082	084	0.5870

KOREA ,TAE BAEK SAN , STATION 207-05 , 34-48.0. N, 129-21.8. E, AUG. 4.1982, 18:50 KST, DEPTH 160 , COLOR 3, TRANS. 17.0,
 WAVE S. 2. SWELL S 2. WIND S 3. BARO 1002.3. AIR TEMP. DRY 25.8. WET , CLOUD. TYPE C1, AMT 02, WEATHER B ,

0	25.03	31.870	*****							0	25.03	31.870	*****	20.99	679	679	0.0000
10	24.89	31.840	*****							10	24.89	31.840	*****	21.01	677	677	0.0678
20	24.10	31.750	*****							20	24.10	31.950	*****	21.33	647	647	0.1341
30	22.24	32.820	*****							30	22.24	32.820	*****	22.51	533	534	0.1932
50	19.03	33.300	*****							50	19.03	33.300	*****	23.73	417	418	0.2885
75	17.32	33.630	*****							75	17.32	33.630	*****	24.40	353	355	0.3852
100	15.17	34.290	*****							100	15.17	34.290	*****	25.40	258	260	0.4622
125	14.82	34.320	*****							125	14.82	34.320	*****	25.50	248	251	0.5263
150	14.60	34.330	*****							150	14.60	34.330	*****	25.56	243	247	0.5887
155	14.65	34.350	*****														

10月(October)

KOREA ,TAE BAEK SAN , STATION 207-01 , 35-01.3. N, 129-07.2. E, OCT. 5.1982, 14:50 KST, DEPTH 84 , COLOR 5, TRANS. 7.0,
 WAVE NE 1. SWELL NE 1, WIND NE 2. BARO 1012.3. AIR TEMP. DRY 21.3. WET , CLOUD. TYPE CU, AMT 09, WEATHER C ,

0	21.96	32.540	5.14							0	21.96	32.540	5.14	22.38	546	546	0.0000
10	21.90	32.660	5.09							10	21.90	32.660	5.09	22.49	536	536	0.0541

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

20	22.47	32.960	4.98							20	22.47	32.960	4.98	22.56	529	529	0.1074
30	21.29	33.310	4.59							30	21.29	33.310	4.59	23.15	473	473	0.1576
50	14.58	33.810	4.67							50	14.58	33.810	4.67	25.16	281	282	0.2332
75	13.68	34.000	4.38							75	13.68	34.000	4.38	25.50	249	250	0.2998

KOREA , TAE BAEK SAN : STATION 207-02 , 34-57.6. N, 129-11.2. E, OCT. 5.1982, 15:50 KST, DEPTH 103 , COLOR 5, TRANS. 7.0,
 WAVE NE 1, SWELL NE 1, WIND NE 2, BARO 1013.1, AIR TEMP. DRY 21.4, WET , CLOUD. TYPE CU, AMT 09, WEATHER C ,

0	22.03	32.680	5.41							0	22.03	32.680	5.41	22.47	538	537	0.0000
10	22.07	32.660	5.36							10	22.07	32.660	5.36	22.44	540	540	0.0539
20	22.04	32.670	4.91							20	22.04	32.670	4.91	22.46	539	539	0.1079
30	22.21	32.800	4.79							30	22.21	32.800	4.79	22.51	534	534	0.1616
50	22.52	33.800	4.64							50	22.52	33.800	4.64	23.18	470	471	0.2623
75	14.34	33.770	4.29							75	14.34	33.770	4.29	25.18	279	280	0.3563
100	14.38	34.270	3.64							100	14.38	34.270	3.64	25.56	243	245	0.4222

KOREA , TAE BAEK SAN : STATION 207-03 , 34-53.9. N, 129-15.4. E, OCT. 2.1982, 16:40 KST, DEPTH 115 , COLOR 5, TRANS. 6.0,
 WAVE NE 1, SWELL NE 1, WIND NE 2, BARO 1013. , AIR TEMP. DRY 21.4, WET , CLOUD. TYPE CU, AMT 09, WEATHER C ,

0	22.10	32.630	5.04							0	22.10	32.630	5.04	22.41	543	543	0.0000
10	23.24	32.810	4.93							10	23.24	32.810	4.93	22.22	561	561	0.0552
20	22.76	32.950	4.61							20	22.76	32.950	4.61	22.47	538	538	0.1102
30	19.23	33.150	4.50							30	19.23	33.150	4.50	23.57	433	433	0.1588
50	16.12	33.260	4.50							50	16.12	33.260	4.50	24.40	353	354	0.2376
75	15.81	33.460	4.30							75	15.81	33.460	4.30	24.62	332	334	0.3238
100	15.27	34.000	3.96							100	15.27	34.000	3.96	25.15	281	284	0.4011
110	15.37	34.390	3.75														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA .TAE BAEK SAN , STATION 207-04 , 34-50.2. N, 129-19.5. E, OCT. 5.1982, 17:40 KST, DEPTH 214 , COLOR 5, TRANS. 7.0,

WAVE NE 1. SWELL NE 1, WIND NE 2, BARO 1013. , AIR TEMP. DRY 21.9, WET , CLOUD. TYPE CU, AMT 09, WEATHER C ,

0	23.32	32.820	5.09							0	23.32	32.820	5.09	22.21	562	0.0000	
10	23.41	33.270	4.98							10	23.41	33.270	4.98	22.52	532	0.0547	
20	23.53	33.390	4.93							20	23.53	33.390	4.93	22.58	527	0.1078	
30	23.97	33.400	4.64							30	23.97	33.400	4.64	22.46	539	0.1611	
50	19.22	33.540	4.55							50	19.22	33.540	4.55	23.87	404	0.2557	
75	15.49	34.120	4.50							75	15.49	34.120	4.50	25.20	277	0.3413	
100	14.55	34.170	4.18							100	14.55	34.170	4.18	25.44	254	0.4083	
125	14.33	34.260	3.96							125	14.33	34.260	3.96	25.56	243	0.4711	
150	14.23	34.280	3.91							150	14.23	34.280	3.91	25.60	239	0.5324	
200	10.30	34.270	3.80							200	10.30	34.270	3.80	26.35	168	0.6363	
210	8.14	34.250	3.65														

KOREA .TAE BAEK SAN , STATION 207-05 , 34-48.0. N, 129-21.8. E, OCT. 5.1982, 18:50 KST, DEPTH 160 , COLOR , TRANS. ,

WAVE NE 1. SWELL NE 1, WIND NE 2, BARO 1012. . AIR TEMP. DRY 21.8, WET , CLOUD. TYPE CU, AMT 07, WEATHER BC,

0	23.50	32.930	4.86							0	23.50	32.930	4.86	22.24	559	0.0000	
10	23.69	33.320	4.82							10	23.69	33.320	4.82	22.48	537	0.0548	
20	21.40	33.550	4.82							20	21.40	33.550	4.82	23.30	458	0.1046	
30	19.40	33.720	4.71							30	19.40	33.720	4.71	23.96	395	0.1474	
50	16.46	33.980	4.39							50	16.46	33.980	4.39	24.87	308	0.2180	
75	15.47	34.020	4.34							75	15.47	34.020	4.34	25.13	284	0.2925	
100	15.26	34.170	4.05							100	15.26	34.170	4.05	25.29	268	0.3621	
125	15.12	34.390	3.75							125	15.12	34.390	3.75	25.49	249	0.4277	

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

12月(December)

KOREA ,TAE BAEK SAN , STATION 207-01 , 35-01.3. N, 129-07.2. E, DEC.10.1982, 14:30 KST, DEPTH 84 , COLOR 3, TRANS. 13.0,

WAVE NE 1, SWELL NE 1, WIND NE 2, BARD 1015. , AIR TEMP. DRY 13.1, WET , CLOUD. TYPE ST, AMT 01, WEATHER B ,																	
0	18.15	34.155	5.21							0	18.15	34.155	5.21	24.60	334	333	0.0000
10	16.70	34.167	5.15							10	16.70	34.167	5.15	24.96	300	300	0.0317
20	15.40	33.976	5.12							20	15.40	33.976	5.12	25.11	286	286	0.0610
30	15.35	33.993	5.20							30	15.35	33.993	5.20	25.13	283	284	0.0895
50	15.27	33.990	5.19							50	15.27	33.990	5.19	25.15	282	283	0.1463
75	14.74	33.972	5.17							75	14.74	33.972	5.17	25.25	272	274	0.2160

KOREA ,TAE BAEK SAN , STATION 207-02 , 34-57.6. N, 129-11.2. E, DEC.10.1982, 15:15 KST, DEPTH 104 , COLOR 3, TRANS. 13.0,

WAVE NE 1, SWELL NE 1, WIND NE 2, BARD 1015. , AIR TEMP. DRY 13.4, WET , CLOUD. TYPE ST, AMT 01, WEATHER B ,																	
0	18.74	34.395	5.22							0	18.74	34.395	5.22	24.64	330	330	0.0000
10	18.79	34.404	5.22							10	18.79	34.404	5.22	24.63	331	331	0.0330
20	18.63	34.355	5.10							20	18.63	34.355	5.10	24.64	331	331	0.0662
30	18.13	34.316	5.10							30	18.13	34.316	5.10	24.73	322	322	0.0989
50	17.00	34.138	5.09							50	17.00	34.138	5.09	24.87	309	310	0.1622
75	15.59	33.959	5.07							75	15.59	33.959	5.07	25.05	291	293	0.2376
100	15.04	33.919	4.50							100	15.04	33.919	4.50	25.15	282	285	0.3099

KOREA ,TAE BAEK SAN , STATION 207-03 , 34-53.9. N, 129-15.4. E, DEC.10.1982, 16:00 KST, DEPTH 113 , COLOR , TRANS.

WAVE NE 1, SWELL NE 1, WIND NE 2, BARD 1015. , AIR TEMP. DRY 13.8, WET , CLOUD. TYPE AC, AMT 08, WEATHER C ,																	
0	19.04	34.398	5.07							0	19.04	34.398	5.07	24.57	337	337	0.0000
10	19.13	34.414	5.05							10	19.13	34.414	5.05	24.56	338	338	0.0338
20	19.08	34.411	5.02							20	19.08	34.411	5.02	24.57	337	338	0.0676

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
30	19.09	34.412	5.00							30	19.09	34.412	5.00	24.56	338	338	0.1015
50	18.38	34.415	4.96							50	18.38	34.415	4.96	24.74	320	322	0.1675
75	17.19	34.443	4.94							75	17.19	34.443	4.94	25.06	291	293	0.2444
100	16.04	34.468	4.64							100	16.04	34.468	4.64	25.34	263	266	0.3144
110	15.40	34.494	4.44														
KOREA ,TAE BAEK SAN , STATION 207-04 , 34-50.2. N, 129-19.5. E, DEC.10.1982, 17:00 KST, DEPTH 237 , COLOR , TRANS. ,																	
WAVE NE 1, SWELL NE 1, WIND NE 2, BARO 1015. , AIR TEMP. DRY 14.3, WET , CLOUD. TYPE AS, AMT O9, WEATHER C ,																	
0	18.88	34.388	5.22							0	18.88	34.388	5.22	24.60	334	334	0.0000
10	18.86	34.361	5.19							10	18.86	34.361	5.19	24.58	336	336	0.0335
20	18.70	34.373	5.14							20	18.70	34.373	5.14	24.63	331	331	0.0669
30	18.68	34.334	5.07							30	18.68	34.334	5.07	24.61	333	334	0.1002
50	18.63	34.345	5.02							50	18.63	34.345	5.02	24.63	331	333	0.1669
75	18.53	34.348	4.95							75	18.53	34.348	4.95	24.66	329	331	0.2500
100	18.41	34.350	4.83							100	18.41	34.350	4.83	24.69	325	328	0.3324
125	16.35	34.129	4.83							125	16.35	34.129	4.83	25.01	295	298	0.4108
150	15.10	34.940	4.58							150	15.10	34.940	4.58	25.92	209	213	0.4748
200	14.95	34.165	4.33							200	14.95	34.165	4.33	25.35	262	267	0.5951
230	14.68	34.145	3.96														
KOREA ,TAE BAEK SAN , STATION 207-05 , 34-48.0. N, 129-21.8. E, DEC.10.1982, 18:00 KST, DEPTH 160 , COLOR , TRANS. ,																	
WAVE NE 1, SWELL NE 1, WIND NE 2, BARO 1015. , AIR TEMP. DRY 14.4, WET , CLOUD. TYPE AS, AMT O9, WEATHER C ,																	
0	18.50	34.409	5.23							0	18.50	34.409	5.23	24.71	324	323	0.0000
10	18.96	34.388	5.07							10	18.96	34.388	5.07	24.58	336	336	0.0330
20	18.90	34.383	5.12							20	18.90	34.383	5.12	24.59	335	335	0.0666

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
30	18.91	34.373	5.02							30	18.91	34.373	5.02	24.58	336	337	0.1002
50	18.90	34.376	5.02							50	18.90	34.376	5.02	24.58	336	337	0.1677
75	18.10	34.318	5.02							75	18.10	34.318	5.02	24.74	321	323	0.2503
100	15.36	34.271	4.73							100	15.36	34.271	4.73	25.35	263	266	0.3239
125	15.11	34.228	4.73							125	15.11	34.228	4.73	25.37	261	264	0.3903
150	14.86	34.156	4.30							150	14.86	34.156	4.30	25.37	261	265	0.4565

206線 海洋觀測 成績

Oceanographic Data. Line 206

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

2月(February)

KOREA ,TAE BAEK SAN , STATION 206-01 , 34-35.5. N, 128-34.5. E, FEB. 7.1982, 00:45 KST, DEPTH 62 , COLOR , TRANS. ,
 WAVE NW 4, SWELL NW 2, WIND NW 4, BARO 1021. , AIR TEMP. DRY - 0.8, WET , CLOUD. TYPE , AMT , WEATHER B ,
 0 12.67 34.460 ***** 0 12.67 34.460 ***** 26.05 196 195 0.0000
 10 12.65 34.460 ***** 10 12.65 34.460 ***** 26.06 195 195 0.0195
 20 12.62 34.460 ***** 20 12.62 34.460 ***** 26.06 195 195 0.0391
 30 12.53 34.450 ***** 30 12.53 34.450 ***** 26.07 194 194 0.0586
 50 11.46 34.400 ***** 50 11.46 34.400 ***** 26.24 178 179 0.0961

KOREA ,TAE BAEK SAN , STATION 206-02 , 34-29.6. N, 128-41.2. E, FEB. 6.1982, 23:45 KST, DEPTH 70 , COLOR , TRANS. ,
 WAVE NW 4, SWELL NW 2, WIND NW 4, BARO 1021. , AIR TEMP. DRY 0.9, WET , CLOUD. TYPE , AMT , WEATHER B ,
 0 13.66 34.530 ***** 0 13.66 34.530 ***** 25.91 210 209 0.0000
 10 13.65 34.540 ***** 10 13.65 34.540 ***** 25.92 209 209 0.0209
 20 13.70 34.530 ***** 20 13.70 34.530 ***** 25.90 210 211 0.0419
 30 13.49 34.520 ***** 30 13.49 34.520 ***** 25.94 207 207 0.0629
 50 13.22 34.510 ***** 50 13.22 34.510 ***** 25.98 203 203 0.1041
 60 12.13 34.380 *****

KOREA ,TAE BAEK SAN , STATION 206-03 , 34-22.4. N, 128-49.7. E, FEB. 6.1982, 22:10 KST, DEPTH 95 , COLOR , TRANS. ,
 WAVE NW 3, SWELL NW 2, WIND NW 4, BARO 1020. , AIR TEMP. DRY 2.9, WET , CLOUD. TYPE , AMT 00, WEATHER B ,
 0 13.72 34.520 ***** 0 13.72 34.520 ***** 25.89 212 211 0.0000

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

10	13.78	34.520	*****							10	13.78	34.520	*****	25.88	213	213	0.0212
20	13.76	34.540	*****							20	13.76	34.540	*****	25.90	211	211	0.0424
30	13.79	34.540	*****							30	13.79	34.540	*****	25.89	211	212	0.0636
50	13.75	34.540	*****							50	13.75	34.540	*****	25.90	211	212	0.1061
75	13.76	34.520	*****							75	13.76	34.520	*****	25.88	212	214	0.1594
90	13.37	34.510	*****														

KOREA , TAE BAEK SAN , STATION 206-04 , 34-15.3. N, 128-58.0. E, FEB. 6.1982, 20:50 KST, DEPTH 110 , COLOR , TRANS.

WAVE NW 3, SWELL NW 2, WIND NW 4, BARD 1014. , AIR TEMP. DRY 3.6, WET , CLOUD. TYPE AC, AMT 07, WEATHER BC,

0	13.72	34.530	*****							0	13.72	34.530	*****	25.90	211	210	0.0000
10	13.67	34.530	*****							10	13.67	34.530	*****	25.91	210	210	0.0210
20	13.68	34.510	*****							20	13.68	34.510	*****	25.89	211	212	0.0421
30	13.67	34.500	*****							30	13.67	34.500	*****	25.88	212	212	0.0634
50	13.64	34.510	*****							50	13.64	34.510	*****	25.90	211	212	0.1059
75	12.65	34.400	*****							75	12.65	34.400	*****	26.01	200	201	0.1577
100	11.74	34.360	*****							100	11.74	34.360	*****	26.16	186	188	0.2065

KOREA , TAE BAEK SAN , STATION 206-05 , 34-08.1. N, 129-06.3. E, FEB. 6.1982, 19:30 KST, DEPTH 130 , COLOR , TRANS.

WAVE NW 3, SWELL NW 2, WIND NW 4, BARD 1019. , AIR TEMP. DRY 5.0, WET , CLOUD. TYPE AC, AMT 06, WEATHER BC,

0	14.40	34.560	*****							0	14.40	34.560	*****	25.78	222	222	0.0000
10	14.26	34.550	*****							10	14.26	34.550	*****	25.80	220	220	0.0221
20	14.24	34.570	*****							20	14.24	34.570	*****	25.82	218	218	0.0441
30	14.24	34.550	*****							30	14.24	34.550	*****	25.80	220	220	0.0660
50	14.23	34.540	*****							50	14.23	34.540	*****	25.80	220	221	0.1103
75	13.89	34.520	*****							75	13.89	34.520	*****	25.85	215	217	0.1651

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

100 13.61 34.480 *****
120 13.01 34.530 *****

4月(April)

KOREA ,TAE BAEK SAN , STATION 206-01 , 34-35.5. N, 128-34.5. E, APR. 7.1982, 05:45 KST, DEPTH 62 , COLOR , TRANS.
WAVE N 1, SWELL N 1, WIND N 3, BARD 1011. , AIR TEMP. DRY 12.3, WET , CLOUD. TYPE NS, AMT 10, WEATHER R ,

0 12.88 34.460 ***** 0 12.88 34.460 ***** 26.01 200 199 0.0000
10 12.87 34.480 ***** 10 12.87 34.480 ***** 26.03 198 198 0.0199
20 12.60 34.520 ***** 20 12.60 34.520 ***** 26.11 190 190 0.0393
30 12.60 34.520 ***** 30 12.60 34.520 ***** 26.11 190 190 0.0584
50 12.58 34.540 ***** 50 12.58 34.540 ***** 26.13 188 187 0.0965
58 12.57 34.460 *****

KOREA ,TAE BAEK SAN , STATION 206-02 , 34-29.6. N, 128-41.2. E, APR. 7.1982, 04:32 KST, DEPTH 70 , COLOR , TRANS.
WAVE N 1, SWELL N 1, WIND N 3, BARD 1011. , AIR TEMP. DRY 12.2, WET , CLOUD. TYPE NS, AMT 10, WEATHER C ,

0 13.57 34.520 ***** 0 13.57 34.520 ***** 25.92 209 208 0.0000
10 13.57 34.550 ***** 10 13.57 34.550 ***** 25.94 206 206 0.0207
20 13.54 34.530 ***** 20 13.54 34.530 ***** 25.93 207 207 0.0415
30 13.49 34.510 ***** 30 13.49 34.510 ***** 25.93 208 208 0.0623
50 13.06 34.500 ***** 50 13.06 34.500 ***** 26.01 200 201 0.1033
65 12.79 34.530 *****

KOREA ,TAE BAEK SAN , STATION 206-03 , 34-22.4. N, 128-49.7. E, APR. 7.1982, 02:35 KST, DEPTH 93 , COLOR , TRANS.
WAVE N 1, SWELL N 1, WIND N 2, BARD 1011. , AIR TEMP. DRY 12.4, WET , CLOUD. TYPE NS, AMT 10, WEATHER R ,

0 13.22 34.490 ***** 0 13.22 34.490 ***** 25.97 204 204 0.0000

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

10	13.22	34.480	*****							10	13.22	34.480	*****	25.96	205	205	0.0204
20	13.18	34.490	*****							20	13.18	34.490	*****	25.98	203	203	0.0409
30	12.94	34.490	*****							30	12.94	34.490	*****	26.02	199	199	0.0610
50	12.60	34.510	*****							50	12.60	34.510	*****	26.11	191	192	0.1002
75	12.39	34.480	*****							75	12.39	34.480	*****	26.12	189	191	0.1481
90	11.98	34.470	*****														

KOREA , TAE BAEK SAN , STATION 206-04 , 34-15.3. N, 128-58.0. E, APR. 7.1982, 01:10 KST, DEPTH 110 , COLOR , TRANS.

WAVE N	1, SWELL N	1, WIND N	1, BARO 1011.5, AIR TEMP. DRY	12.9, WET													
0	14.30	34.540	*****							0	14.30	34.540	*****	25.78	222	221	0.0000
10	14.23	34.540	*****							10	14.23	34.540	*****	25.80	220	220	0.0221
20	14.20	34.550	*****							20	14.20	34.550	*****	25.81	219	219	0.0441
30	13.85	34.490	*****							30	13.85	34.490	*****	25.84	216	217	0.0659
50	13.62	34.490	*****							50	13.62	34.490	*****	25.87	212	213	0.1090
75	13.49	34.500	*****							75	13.49	34.500	*****	25.92	208	210	0.1620
100	13.33	34.510	*****							100	13.33	34.510	*****	25.96	205	207	0.2142

KOREA , TAE BAEK SAN , STATION 206-05 , 34-08.1. N, 129-06.3. E, APR. 6.1982, 23:40 KST, DEPTH 130 , COLOR , TRANS.

WAVE N	1, SWELL N	1, WIND N	1, BARO 1012.5, AIR TEMP. DRY	13.0, WET													
0	15.30	34.580	*****							0	15.30	34.580	*****	25.60	239	239	0.0000
10	15.07	34.590	*****							10	15.07	34.590	*****	25.65	234	234	0.0236
20	15.15	34.590	*****							20	15.15	34.590	*****	25.64	235	236	0.0472
30	15.07	34.590	*****							30	15.07	34.590	*****	25.65	234	234	0.0707
50	14.73	34.560	*****							50	14.73	34.560	*****	25.71	229	230	0.1172
75	14.68	34.550	*****							75	14.68	34.550	*****	25.71	229	230	0.1749

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY

100 14.60 34.550 *****
125 14.38 34.550 *****

6月(June)

KOREA ,TAE BAEK SAN , STATION 206-01 , 34-35.5. N, 128-34.5. E, JUN.17.1982, 19:40 KST, DEPTH 62 , COLOR , TRANS.
WAVE NE 1, SWELL NE 1, WIND NE 1, BARO 1000. , AIR TEMP. DRY 20.6, WET , CLOUD. TYPE CS, AMT 01, WEATHER B ,
0 18.13 34.090 ***** 0 18.13 34.090 ***** 24.56 338 338 0.0000
10 16.76 34.130 ***** 10 16.76 34.130 ***** 24.92 304 304 0.0321
20 16.67 34.140 ***** 20 16.67 34.140 ***** 24.95 301 301 0.0624
30 16.58 34.140 ***** 30 16.58 34.140 ***** 24.97 299 300 0.0925
50 15.09 34.200 ***** 50 15.09 34.200 ***** 25.35 263 264 0.1489
59 14.96 34.220 *****

KOREA ,TAE BAEK SAN , STATION 206-02 , 34-29.6. N, 128-41.2. E, JUN.17.1982, 20:55 KST, DEPTH 70 , COLOR , TRANS.
WAVE NE 1, SWELL NE 1, WIND NE 2, BARO 1001.3, AIR TEMP. DRY 20.2, WET , CLOUD. TYPE CS, AMT 01, WEATHER B ,
0 19.89 33.990 ***** 0 19.89 33.990 ***** 24.04 388 388 0.0000
10 18.64 33.950 ***** 10 18.64 33.950 ***** 24.33 360 360 0.0374
20 17.67 34.100 ***** 20 17.67 34.100 ***** 24.68 327 327 0.0718
30 14.55 34.280 ***** 30 14.55 34.280 ***** 25.53 246 246 0.1005
50 14.35 34.310 ***** 50 14.35 34.310 ***** 25.59 239 240 0.1493
65 14.20 34.330 *****

KOREA ,TAE BAEK SAN , STATION 206-03 , 34-22.4. N, 128-49.7. E, JUN.17.1982, 22:30 KST, DEPTH 94 , COLOR , TRANS.
WAVE NE 1, SWELL NE 1, WIND NE 2, BARO 1001.7, AIR TEMP. DRY 20.4, WET , CLOUD. TYPE CS, AMT 01, WEATHER B ,
0 19.77 34.010 ***** 0 19.77 34.010 ***** 24.08 383 383 0.0000

OBSERVED														INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY				

10	18.88	34.020	*****							10	18.88	34.020	*****	24.32	361	361	0.0372
20	18.62	34.020	*****							20	18.62	34.020	*****	24.38	355	355	0.0730
30	15.64	34.110	*****							30	15.64	34.110	*****	25.16	281	281	0.1049
50	14.47	34.330	*****							50	14.47	34.330	*****	25.58	240	241	0.1573
75	14.43	34.380	*****							75	14.43	34.380	*****	25.63	236	238	0.2173
90	14.42	34.380	*****														

KOREA ,TAE BAEK SAN , STATION 206-04 , 34-15.3. N, 128-58.0. E, JUN.17.1982, 23:50 KST, DEPTH 110 , COLOR , TRANS. ,

WAVE , SWELL , WIND NE 2, BARO 1000.8, AIR TEMP. DRY 20.4, WET , CLOUD. TYPE CS, AMT 02, WEATHER B ,

0	19.75	33.960	*****							0	19.75	33.960	*****	24.05	387	386	0.0000
10	19.53	33.950	*****							10	19.53	33.950	*****	24.10	382	382	0.0384
20	18.78	34.040	*****							20	18.78	34.040	*****	24.36	357	357	0.0754
30	17.76	34.040	*****							30	17.76	34.040	*****	24.61	333	334	0.1100
50	14.68	34.100	*****							50	14.68	34.100	*****	25.36	262	263	0.1697
75	14.39	34.240	*****							75	14.39	34.240	*****	25.53	245	247	0.2336
100	14.41	34.280	*****							100	14.41	34.280	*****	25.56	243	245	0.2952

KOREA ,TAE BAEK SAN , STATION 206-05 , 34-08.1. N, 129-06.3. E, JUN.18.1982, 01:10 KST, DEPTH 130 , COLOR , TRANS. ,

WAVE NE 2, SWELL NE 2, WIND NE 2, BARO 1008.4, AIR TEMP. DRY 20.2, WET , CLOUD. TYPE CS, AMT 03, WEATHER BC,

0	20.45	33.840	*****							0	20.45	33.840	*****	23.77	413	412	0.0000
10	20.72	33.820	*****							10	20.72	33.820	*****	23.69	421	421	0.0417
20	19.03	*****	*****							20	19.03	33.900	*****	24.19	373	374	0.0815
30	17.64	33.980	*****							30	17.64	33.980	*****	24.59	335	335	0.1169
50	14.87	34.080	*****							50	14.87	34.080	*****	25.31	267	268	0.1774
75	14.41	34.200	*****							75	14.41	34.200	*****	25.50	249	250	0.2423

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
100	14.24	34.300	*****							100	14.24	34.300	*****	25.61	238	240	0.3038
125	14.22	34.320	*****							125	14.22	34.320	*****	25.63	236	239	0.3638
8月(August)																	
KOREA ,TAE BAEK SAN , STATION 206-01 , 34-35.5. N, 128-34.5. E, AUG. 5.1982, 05:00 KST, DEPTH 62 , COLOR , TRANS. ,																	
WAVE SE 1, SWELL SE 1, WIND SE 1, BARO 1002.4, AIR TEMP. DRY 24.9, WET , CLOUD. TYPE CS, AMT 08, WEATHER C ,																	
0	24.38	32.490	*****							0	24.38	32.490	*****	21.65	616	616	0.0000
10	23.83	32.560	*****							10	23.83	32.560	*****	21.86	595	595	0.0605
20	22.06	33.090	*****							20	22.06	33.090	*****	22.77	509	509	0.1158
30	19.64	33.570	*****							30	19.64	33.570	*****	23.78	412	413	0.1620
50	18.30	33.670	*****							50	18.30	33.670	*****	24.20	373	374	0.2407
58	16.81	33.800	*****														
KOREA ,TAE BAEK SAN , STATION 206-02 , 34-29.6. N, 128-41.2. E, AUG. 5.1982, 03:40 KST, DEPTH 70 , COLOR , TRANS. ,																	
WAVE SE 1, SWELL SE 1, WIND SE 2, BARO 1002.1, AIR TEMP. DRY 25.3, WET , CLOUD. TYPE CS, AMT 08, WEATHER C ,																	
0	25.07	31.910	*****							0	25.07	31.910	*****	21.01	677	677	0.0000
10	24.94	31.900	*****							10	24.94	31.900	*****	21.04	674	674	0.0676
20	23.52	32.480	*****							20	23.52	32.480	*****	21.89	592	593	0.1310
30	22.49	33.500	*****							30	22.49	33.500	*****	22.96	491	491	0.1852
50	16.82	33.850	*****							50	16.82	33.850	*****	24.69	326	327	0.2671
65	14.07	34.150	*****														
KOREA ,TAE BAEK SAN , STATION 206-03 , 34-22.4. N, 128-49.7. E, AUG. 5.1982, 02:20 KST, DEPTH 94 , COLOR , TRANS. ,																	
WAVE SW 1, SWELL SW 1, WIND SW 2, BARO 1002.1, AIR TEMP. DRY 25.5, WET , CLOUD. TYPE CS, AMT 08, WEATHER C ,																	
0	25.15	31.770	*****							0	25.15	31.770	*****	20.88	690	690	0.0000

OBSERVED										INTERPOLATED				CALCULATED		
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	D-DY

10	24.48	31.870	*****							10	24.48	31.870	*****	21.17	662	0.0676
20	20.45	32.910	*****							20	20.45	32.910	*****	23.07	480	0.1248
30	17.65	33.480	*****							30	17.65	33.480	*****	24.21	371	0.1674
50	16.03	*****	*****							50	16.03	33.671	*****	24.73	321	0.2369
75	14.57	33.910	*****							75	14.57	33.910	*****	25.24	273	0.3117
90	14.03	34.180	*****													

KOREA , TAE BAEK SAN , STATION 206-04 , 34-15.3. N, 128-58.0. E, AUG. 5.1982, 01:00 KST, DEPTH 110 , COLOR , TRANS.

WAVE S 1, SWELL S 1, WIND S 2, BARO 1002.5, AIR TEMP. DRY 25.8, WET , CLOUD. TYPE 05, AMT 05, WEATHER BC,

0	25.60	31.480	*****							0	25.60	31.480	*****	20.52	724	0.0000
10	25.57	31.520	*****							10	25.57	31.520	*****	20.56	720	0.0722
20	24.70	31.710	*****							20	24.70	31.710	*****	20.97	681	0.1423
30	17.41	33.170	*****							30	17.41	33.170	*****	24.03	388	0.1959
50	16.40	33.480	*****							50	16.40	33.480	*****	24.50	343	0.2693
75	15.39	34.090	*****							75	15.39	34.090	*****	25.20	277	0.3473
100	14.76	34.250	*****							100	14.76	34.250	*****	25.46	252	0.4141

KOREA , TAE BAEK SAN , STATION 206-05 , 34-08.1. N, 129-06.3. E, AUG. 4.1982, 23:40 KST, DEPTH 128 , COLOR , TRANS.

WAVE S 2, SWELL S 2, WIND S 3, BARO 1003. , AIR TEMP. DRY 25.3, WET , CLOUD. TYPE 05, AMT 04, WEATHER BC,

0	26.30	31.100	*****							0	26.30	31.100	*****	20.02	772	0.0000
10	26.03	31.300	*****							10	26.03	31.300	*****	20.26	749	0.0761
20	25.43	31.410	*****							20	25.43	31.410	*****	20.52	724	0.1498
30	18.78	33.270	*****							30	18.78	33.270	*****	23.77	413	0.2067
50	17.39	33.520	*****							50	17.39	33.520	*****	24.30	362	0.2846
75	16.93	34.370	*****							75	16.93	34.370	*****	25.06	290	0.3666

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

100 15.36 34.400 *****
125 15.00 34.470 *****

10月(October)

KOREA ,TAE BAEK SAN , STATION 206-01 , 34-35.5. N, 128-34.5. E, OCT. 6.1982, 04:25 KST, DEPTH 62 , COLOR , TRANS.
WAVE NE 1, SWELL NE 1, WIND NE 2, BARG 1013.4, AIR TEMP. DRY 20.6, WET , CLOUD. TYPE CI, AMT O4, WEATHER BC.
0 21.57 32.550 5.07 0 21.57 32.550 5.07 22.50 535 535 0.0000
10 21.58 32.510 5.04 10 21.58 32.510 5.04 22.46 538 538 0.0536
20 21.41 33.020 4.93 20 21.41 33.020 4.93 22.89 497 497 0.1055
30 20.89 33.100 4.82 30 20.89 33.100 4.82 23.10 478 478 0.1543
50 19.92 33.220 4.61 50 19.92 33.220 4.61 23.44 444 444 0.2468
58 16.87 33.320 4.29

KOREA ,TAE BAEK SAN , STATION 206-02 , 34-29.6. N, 128-41.2. E, OCT. 6.1982, 03:20 KST, DEPTH 70 , COLOR , TRANS.
WAVE NE 1, SWELL NE 1, WIND NE 2, BARG 1013.5, AIR TEMP. DRY 20.8, WET , CLOUD. TYPE CI, AMT O4, WEATHER BC.
0 21.82 32.530 5.25 0 21.82 32.530 5.25 22.41 543 543 0.0000
10 21.86 32.520 4.93 10 21.86 32.520 4.93 22.39 545 545 0.0544
20 21.84 32.990 4.89 20 21.84 32.990 4.89 22.75 510 511 0.1072
30 21.98 33.070 4.75 30 21.98 33.070 4.75 22.78 508 509 0.1582
50 22.01 33.470 4.62 50 22.01 33.470 4.62 23.07 480 491 0.2573
65 15.09 33.700 4.29

KOREA ,TAE BAEK SAN , STATION 206-03 , 34-22.4. N, 128-49.7. E, OCT. 6.1982, 02:05 KST, DEPTH 94 , COLOR , TRANS.
WAVE E 1, SWELL E 1, WIND E 2, BARG 1013.8, AIR TEMP. DRY 21.3, WET , CLOUD. TYPE CI, AMT O5, WEATHER BC.
0 21.75 32.520 5.24 0 21.95 32.520 5.24 22.37 547 547 0.0000

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

10	21.90	32.500	5.14							10	21.90	32.500	5.14	22.37	547	547	0.0547
20	21.90	32.790	5.02							20	21.90	32.790	5.02	22.59	526	527	0.1084
30	20.73	33.080	4.83							30	20.73	33.080	4.83	23.12	475	476	0.1586
50	16.28	33.620	4.69							50	16.28	33.620	4.69	24.64	330	332	0.2394
75	14.35	33.950	4.18							75	14.35	33.950	4.18	25.32	266	267	0.3144
90	14.67	34.130	3.96														

KOREA , TAE BAEK SAN , STATION 206-04 , 34-15.3. N, 128-59.0. E, OCT. 6.1982, 00:50 KST, DEPTH 110 , COLOR , TRANS.																	
WAVE E 1, SWELL E 1, WIND E 1, BARO 1011.7, AIR TEMP. DRY 21.4, WET , CLOUD. TYPE CU, AMT 08, WEATHER C ,																	
0	22.19	32.680	5.36							0	22.19	32.680	5.36	22.42	542	542	0.0000
10	22.17	32.720	5.16							10	22.17	32.720	5.16	22.46	538	539	0.0540
20	22.17	32.970	5.14							20	22.17	32.970	5.14	22.65	520	521	0.1070
30	22.21	33.210	5.06							30	22.21	33.210	5.06	22.82	504	505	0.1583
50	20.81	33.580	4.85							50	20.81	33.580	4.85	23.48	441	442	0.2531
75	16.12	34.070	4.59							75	16.12	34.070	4.59	25.02	294	296	0.3455
100	14.14	34.100	4.25							100	14.14	34.100	4.25	25.48	251	253	0.4142

KOREA , TAE BAEK SAN , STATION 206-05 , 34-08.1. N, 129-06.3. E, OCT. 5.1982, 23:30 KST, DEPTH 130 , COLOR , TRANS.																	
WAVE NE 1, SWELL NE 1, WIND NE 1, BARO 1011.3, AIR TEMP. DRY 21.6, WET , CLOUD. TYPE CU, AMT 08, WEATHER C ,																	
0	23.98	33.220	5.04							0	23.98	33.220	5.04	22.32	552	552	0.0000
10	24.41	33.470	4.93							10	24.41	33.470	4.93	22.38	546	546	0.0549
20	21.36	33.600	4.82							20	21.36	33.600	4.82	23.35	453	454	0.1049
30	19.55	33.900	4.79							30	19.55	33.900	4.79	24.06	386	387	0.1470
50	17.24	33.970	4.55							50	17.24	33.970	4.55	24.68	326	327	0.2185
75	14.19	34.050	4.34							75	14.19	34.050	4.34	25.43	255	257	0.2917

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

100 14.19 ***** 4.25
125 13.93 ***** 3.98

12月(December)

KOREA ,TAE BAEK SAN , STATION 206-01 , 34-35.5. N, 128-34.5. E, DEC.11.1982. 03:50 KST, DEPTH 62 , COLOR , TRANS.
WAVE SW 4, SWELL SW 2, WIND SW 5, BARO 1008. , AIR TEMP. DRY 14.3, WET , CLOUD. TYPE NS, AMT 10, WEATHER R ,
0 15.60 34.033 5.15
10 15.57 34.031 5.08
20 15.55 34.031 5.04
30 15.39 33.963 4.95
50 14.67 33.946 4.93
58 14.54 33.940 4.93

KOREA ,TAE BAEK SAN , STATION 206-02 , 34-37.6. N, 128-41.2. E, DEC.11.1982. 02:15 KST, DEPTH 70 , COLOR , TRANS.
WAVE SW 4, SWELL SW 2, WIND SW 5, BARO 1008. , AIR TEMP. DRY 17.2, WET , CLOUD. TYPE NS, AMT 10, WEATHER C ,
0 16.45 34.197 5.27
10 16.45 34.149 5.17
20 16.37 34.117 5.07
30 15.88 33.980 5.02
50 15.18 33.915 4.92
65 15.17 33.905 4.92

KOREA ,TAE BAEK SAN , STATION 206-03 , 34-22.4. N, 128-49.7. E, DEC.11.1982. 01:00 KST, DEPTH 94 , COLOR , TRANS.
WAVE S 4, SWELL S 2, WIND S 5, BARO 1008. , AIR TEMP. DRY 17.0, WET , CLOUD. TYPE , AMT , WEATHER R ,
0 18.17 34.355 5.17

0 18.17 34.355 5.17 24.75 320 319 0.0000

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

10	18.19	34.353	5.12							10	18.19	34.353	5.12	24.74	320	320	0.0320
20	18.13	34.350	5.00							20	18.13	34.350	5.00	24.76	319	319	0.0640
30	17.42	34.238	5.02							30	17.42	34.238	5.02	24.84	311	311	0.0956
50	17.16	34.198	4.85							50	17.16	34.198	4.85	24.88	308	309	0.1578
75	16.43	*****	4.85							75	16.43	*****	4.85	*****	***	***	*****

KOREA , TAE BAEK SAN , STATION 206-04 , 34-15.3. N, 128-58.0. E, DEC.10.1982, 23:45 KST, DEPTH 110 , COLOR , TRANS. ,

WAVE S 4, SWELL S 2, WIND S 4, BARO 1009.9, AIR TEMP. DRY 17.6, WET , CLOUD. TYPE AS, AMT 10, WEATHER ,

0	19.50	34.429	5.07							0	19.50	34.429	5.07	24.47	346	346	0.0000
10	19.29	34.423	5.00							10	19.29	34.423	5.00	24.52	342	342	0.0344
20	19.23	34.142	5.12							20	19.23	34.142	5.12	24.32	361	361	0.0696
30	17.29	34.109	4.98							30	17.29	34.109	4.98	24.78	317	318	0.1035
50	16.06	33.741	4.79							50	16.06	33.741	4.79	24.78	317	318	0.1672
75	14.93	34.436	4.98							75	14.93	34.436	4.98	25.57	242	244	0.2376
100	14.92	34.480	4.98							100	14.92	34.480	4.98	25.60	239	241	0.2983

KOREA , TAE BAEK SAN , STATION 206-05 , 34-08.1. N, 129-06.3. E, DEC.10.1982, 22:45 KST, DEPTH 130 , COLOR , TRANS. ,

WAVE NW 2, SWELL NW 2, WIND NW 2, BARO 1010.2, AIR TEMP. DRY 18.0, WET , CLOUD. TYPE AS, AMT 08, WEATHER C ,

0	19.50	*****	5.02							0	19.50	*****	5.02	*****	***	***	*****
10	19.56	34.446	5.03							10	19.56	34.446	5.03	24.47	347	347	*****
20	19.37	34.443	5.02							20	19.37	34.443	5.02	24.52	342	342	*****
30	19.25	34.430	5.02							30	19.25	34.430	5.02	24.54	340	341	*****
50	19.06	34.440	4.98							50	19.06	34.440	4.98	24.59	335	336	*****
75	18.01	34.261	4.91							75	18.01	34.261	4.91	24.72	323	325	*****
100	17.93	34.248	4.91							100	17.93	34.248	4.91	24.73	322	325	*****
125	17.09	34.222	4.88							125	17.09	34.222	4.88	24.91	305	308	*****

205線 海洋觀測 成績

Oceanographic Data. Line 205

OBSERVED																	INTERPOLATED					CALCULATED		
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY							

2月(February)

KOREA ,TAE BAEK SAN , STATION 205-01 , 34-22.3. N, 127-48.5. E, FEB.10.1982, 07:45 KST, DEPTH 55 , COLOR , TRANS. ,																	
WAVE NW 3, SWELL NW 2, WIND NW 4, BARO 1021.5, AIR TEMP. DRY 5.8, WET , CLOUD. TYPE CI, AMT 02, WEATHER B ,																	
0	10.08	34.370	*****							0	10.08	34.370	*****	26.46	157	157	0.0000
10	10.06	34.370	*****							10	10.06	34.370	*****	26.46	157	157	0.0157
20	10.10	34.380	*****							20	10.10	34.380	*****	26.47	157	157	0.0314
30	10.07	34.390	*****							30	10.07	34.390	*****	26.48	155	156	0.0471
50	10.07	34.350	*****							50	10.07	34.350	*****	26.45	158	159	0.0787
KOREA ,TAE BAEK SAN , STATION 205-02 , 34-15.0. N, 127-52.1. E, FEB.10.1982, 06:20 KST, DEPTH 60 , COLOR , TRANS. ,																	
WAVE NW 4, SWELL NW 2, WIND NW 4, BARO 1022. , AIR TEMP. DRY 1.4, WET , CLOUD. TYPE CI, AMT 03, WEATHER BC,																	
0	9.77	34.370	*****							0	9.77	34.370	*****	26.51	152	152	0.0000
10	9.73	34.380	*****							10	9.73	34.380	*****	26.53	151	151	0.0151
20	9.75	34.370	*****							20	9.75	34.370	*****	26.52	152	152	0.0303
30	9.74	34.370	*****							30	9.74	34.370	*****	26.52	152	152	0.0455
50	9.78	34.360	*****							50	9.78	34.360	*****	26.50	153	154	0.0762
KOREA ,TAE BAEK SAN , STATION 205-03 , 34-05.5. N, 127-56.9. E, FEB.10.1982, 03:50 KST, DEPTH 85 , COLOR , TRANS. ,																	
WAVE NW 4, SWELL NW 2, WIND NW 5, BARO 1022. , AIR TEMP. DRY 2.3, WET , CLOUD. TYPE CS, AMT 09, WEATHER C ,																	
0	14.01	34.550	*****							0	14.01	34.550	*****	25.85	215	215	0.0000
10	14.02	34.530	*****							10	14.02	34.530	*****	25.83	217	217	0.0216
20	14.04	34.550	*****							20	14.04	34.550	*****	25.84	216	216	0.0432

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

30 14.06 34.520 *****
50 13.03 34.510 *****
73 12.09 34.470 *****

KOREA ,TAE BAEK SAN , STATION 205-04 , 33-51.5. N, 128-03.0. E, FEB.10.1982, 02:35 KST, DEPTH 83 , COLOR , TRANS.
WAVE NW 4, SWELL NW 3, WIND NW 5, BARO 1022. , AIR TEMP. DRY 3.5, WET , CLOUD. TYPE C5, AMT 10, WEATHER C ,
0 14.14 34.520 ***** 0 14.14 34.520 ***** 25.80 220 220 0.0000
10 14.15 34.540 ***** 10 14.15 34.540 ***** 25.81 219 219 0.0219
20 14.11 34.530 ***** 20 14.11 34.530 ***** 25.81 219 219 0.0434
30 14.27 34.540 ***** 30 14.27 34.540 ***** 25.79 221 222 0.0659
50 14.13 34.530 ***** 50 14.13 34.530 ***** 25.81 219 220 0.1101
72 14.22 34.540 *****

KOREA ,TAE BAEK SAN , STATION 205-05 , 33-37.3. N, 128-09.2. E, FEB.10.1982, 00:30 KST, DEPTH 115 , COLOR , TRANS.
WAVE NW 4, SWELL NW 3, WIND NW 5, BARO 1022. , AIR TEMP. DRY 5.3, WET , CLOUD. TYPE A5, AMT 04, WEATHER BC,
0 14.20 34.620 ***** 0 14.20 34.620 ***** 25.87 214 213 0.0000
10 14.26 34.580 ***** 10 14.26 34.580 ***** 25.82 218 218 0.0216
20 14.19 34.550 ***** 20 14.19 34.550 ***** 25.81 219 219 0.0434
30 14.20 34.560 ***** 30 14.20 34.560 ***** 25.82 218 219 0.0654
50 14.19 34.550 ***** 50 14.19 34.550 ***** 25.81 219 220 0.1093
75 14.17 34.560 ***** 75 14.17 34.560 ***** 25.83 218 219 0.1643
100 14.23 34.550 ***** 100 14.23 34.550 ***** 25.80 219 222 0.2196
110 14.20 34.580 *****

4月(April)

KOREA ,TAE BAEK SAN , STATION 205-01 , 34-22.3. N, 127-48.5. E, APR. 8.1982, 07:13 KST, DEPTH 54 , COLOR 4, TRANS. 7.0,
WAVE NW 2, SWELL NW 2, WIND NW 4, BARO 1007. , AIR TEMP. DRY 12.6, WET , CLOUD. TYPE C1, AMT 01, WEATHER B ,

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
10	11.42	34.240	*****							10	11.42	34.240	*****	26.12	189	189	0.0187
20	11.42	*****	*****							20	11.42	34.240	*****	26.12	189	189	0.0377
30	11.43	34.240	*****							30	11.43	34.240	*****	26.12	189	190	0.0567
50	11.42	34.240	*****							50	11.42	34.240	*****	26.12	189	190	0.0948
KOREA ,TAE BAEK SAN , STATION 205-02 , 34-15.0. N, 127-52.1. E, APR. 8.1982, 05:13 KST, DEPTH 60 , COLOR , TRANS.																	
WAVE NW 2, SWELL NW 2, WIND NW 4, BARO 1005. , AIR TEMP. DRY 13.5, WET , CLOUD. TYPE ST, AMT 02, WEATHER B ,																	
0	12.80	34.450	*****							0	12.80	34.450	*****	26.02	199	199	0.0000
10	12.67	34.510	*****							10	12.67	34.510	*****	26.09	192	192	0.0195
20	12.12	34.530	*****							20	12.12	34.530	*****	26.22	180	181	0.0382
30	12.08	34.530	*****							30	12.08	34.530	*****	26.22	180	180	0.0563
50	12.08	34.660	*****							50	12.08	34.660	*****	26.32	170	171	0.0915
KOREA ,TAE BAEK SAN , STATION 205-03 , 34-05.5. N, 127-56.9. E, APR. 8.1982, 03:23 KST, DEPTH 86 , COLOR , TRANS.																	
WAVE NW 2, SWELL NW 2, WIND NW 4, BARO 1007. , AIR TEMP. DRY 13.5, WET , CLOUD. TYPE ST, AMT 06, WEATHER BC,																	
0	13.60	34.440	*****							0	13.60	34.440	*****	25.85	215	215	0.0000
10	13.53	34.460	*****							10	13.53	34.460	*****	25.88	212	212	0.0213
20	13.52	34.450	*****							20	13.52	34.450	*****	25.88	213	213	0.0426
30	13.50	34.450	*****							30	13.50	34.450	*****	25.88	212	213	0.0640
50	13.49	34.440	*****							50	13.49	34.440	*****	25.87	213	214	0.1068
75	13.30	34.450	*****							75	13.30	34.450	*****	25.92	208	210	0.1599
KOREA ,TAE BAEK SAN , STATION 205-04 , 33-51.5. N, 128-03.0. E, APR. 8.1982, 01:10 KST, DEPTH 85 , COLOR , TRANS.																	
WAVE NW 2, SWELL NW 2, WIND NW 4, BARO 1007. , AIR TEMP. DRY 14.0, WET , CLOUD. TYPE ST, AMT 06, WEATHER BC,																	
0	13.94	34.510	*****							0	13.94	34.510	*****	25.84	217	216	0.0000
10	14.02	34.530	*****							10	14.02	34.530	*****	25.83	217	217	0.0216

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
20	13.99	34.510	*****							20	13.99	34.510	*****	25.82	218	218	0.0434
30	13.72	34.480	*****							30	13.72	34.480	*****	25.86	214	215	0.0651
50	13.56	34.470	*****							50	13.56	34.470	*****	25.88	212	213	0.1080
75	12.98	34.500	*****							75	12.98	34.500	*****	26.02	199	200	0.1598
KOREA ,TAE BAEK SAN , STATION 205-05 , 33-37.3. N, 128-09.2. E, APR. 7.1982, 22:55 KST, DEPTH 116 , COLOR , TRANS. ,																	
WAVE NW 2, SWELL NW 2, WIND NW 5, BARO 1007. , AIR TEMP. DRY 14.8, WET , CLOUD. TYPE ST, AMT 06, WEATHER BC,																	
0	14.78	34.520	*****							0	14.78	34.520	*****	25.66	233	233	0.0000
10	14.81	34.520	*****							10	14.81	34.520	*****	25.66	233	233	0.0233
20	14.80	34.520	*****							20	14.80	34.520	*****	25.66	233	234	0.0467
30	14.84	34.510	*****							30	14.84	34.510	*****	25.64	235	235	0.0702
50	14.82	34.520	*****							50	14.82	34.520	*****	25.66	234	235	0.1173
75	14.73	34.520	*****							75	14.73	34.520	*****	25.67	232	234	0.1760
100	14.48	34.490	*****							100	14.48	34.490	*****	25.71	229	231	0.2342
110	14.14	34.490	*****														

6 月(June)

KOREA ,TAE BAEK SAN , STATION 205-01 , 34-22.3. N, 127-48.5. E, JUN.14.1982, 11:25 KST, DEPTH 54 , COLOR 3, TRANS. 9.0,																	
WAVE , SWELL NE 1, WIND NE 2, BARO 1001.7, AIR TEMP. DRY 22.3, WET , CLOUD. TYPE CI, AMT 02, WEATHER B ,																	
0	19.25	33.850	*****							0	19.25	33.850	*****	24.09	382	382	0.0000
10	18.91	33.850	*****							10	18.91	33.850	*****	24.18	374	374	0.0378
20	18.80	33.850	*****							20	18.80	33.850	*****	24.21	371	372	0.0751
30	18.08	33.920	*****							30	18.08	33.920	*****	24.44	349	350	0.1113
50	15.81	34.110	*****							50	15.81	34.110	*****	25.12	284	286	0.1749

OBSERVED										INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY	
KOREA ,TAE BAEK SAN , STATION 205-02 , 34-15.0. N, 127-52.1. E, JUN.14.1982, 12:50 KST, DEPTH 60 , COLOR 4, TRANS. 9.0,																		
WAVE , SWELL NE 1, WIND NE 1, BARO 1002.2, AIR TEMP. DRY 22.4, WET , CLOUD. TYPE C1, AMT O2, WEATHER B ,																		
0	18.73	33.900	*****							0	18.73	33.900	*****	24.26	366	366	0.0000	
10	18.07	33.950	*****							10	18.07	33.950	*****	24.47	347	347	0.0356	
20	18.05	34.000	*****							20	18.05	34.000	*****	24.51	343	343	0.0702	
30	17.63	34.010	*****							30	17.63	34.010	*****	24.62	332	333	0.1040	
50	16.03	34.090	*****							50	16.03	34.090	*****	25.06	291	292	0.1666	
KOREA ,TAE BAEK SAN , STATION 205-03 , 34-05.5. N, 127-56.9. E, JUN.14.1982, 14:10 KST, DEPTH 85 , COLOR 4, TRANS. 10.0,																		
WAVE SE 1, SWELL SE 1, WIND SE 1, BARO 1002.2, AIR TEMP. DRY 21.8, WET , CLOUD. TYPE C1, AMT O2, WEATHER B ,																		
0	18.46	33.930	*****							0	18.46	33.930	*****	24.35	357	357	0.0000	
10	17.64	33.940	*****							10	17.64	33.940	*****	24.56	338	338	0.0347	
20	15.57	34.110	*****							20	15.57	34.110	*****	25.17	279	280	0.0656	
30	14.99	34.130	*****							30	14.99	34.130	*****	25.32	266	266	0.0930	
50	14.66	34.170	*****							50	14.66	34.170	*****	25.42	256	257	0.1454	
75	14.31	34.170	*****							75	14.31	34.170	*****	25.50	249	251	0.2090	
KOREA ,TAE BAEK SAN , STATION 205-04 , 33-51.5. N, 128-03.0. E, JUN.14.1982, 16:00 KST, DEPTH 85 , COLOR 3, TRANS. 13.0,																		
WAVE SE 2, SWELL SE 2, WIND SE 2, BARO 1002.5, AIR TEMP. DRY 21.4, WET , CLOUD. TYPE C1, AMT O2, WEATHER B ,																		
0	19.45	33.820	*****							0	19.45	33.820	*****	24.02	389	389	0.0000	
10	18.73	33.830	*****							10	18.73	33.830	*****	24.21	371	371	0.0380	
20	16.92	33.970	*****							20	16.92	33.970	*****	24.76	319	319	0.0726	
30	15.14	33.970	*****							30	15.14	33.970	*****	25.16	281	281	0.1026	
50	14.67	34.070	*****							50	14.67	34.070	*****	25.31	266	267	0.1576	
75	14.63	34.050	*****							75	14.63	34.050	*****	25.33	264	266	0.2244	

OBSERVED										INTERPOLATED				CALCULATED		
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA D-DY

KOREA ,TAE BAEK SAN , STATION 205-05 , 33-37.3. N, 128-09.2. E, JUN.14.1982, 17:50 KST, DEPTH 116 , COLOR 3, TRANS. 15.0,
 WAVE NE 3, SWELL NE 2, WIND NE 3, BARO 1003.4, AIR TEMP. DRY 20.7, WET , CLOUD. TYPE CI, AMT 01, WEATHER B ,
 0 20.27 33.900 ***** 0 20.23 33.900 ***** 23.88 403 403 0 0000
 10 19.79 33.880 ***** 10 19.79 33.880 ***** 23.98 393 393 0.0598
 20 17.45 34.150 ***** 20 17.45 34.150 ***** 24.77 318 318 0.0754
 30 16.96 ***** 30 16.96 34.170 ***** 24.90 305 306 0.1067
 50 16.51 34.210 ***** 50 16.51 34.210 ***** 25.04 292 294 0.1667
 75 15.71 34.280 ***** 75 15.71 34.280 ***** 25.27 270 272 0.2375
 100 14.88 34.460 ***** 100 14.88 34.460 ***** 25.60 239 242 0.3018
 110 14.72 34.480 *****

8月(August)

KOREA ,TAE BAEK SAN , STATION 205-01 , 34-22.3. N, 127-48.5. E, AUG. 2.1982, 02:45 KST, DEPTH 52 , COLOR , TRANS. ,
 WAVE SE 1, SWELL SE 1, WIND SE 2, BARO 1002. , AIR TEMP. DRY 25.4, WET , CLOUD. TYPE CU, AMT 07, WEATHER BC,
 0 24.47 32.860 ***** 0 24.47 32.860 ***** 21.90 592 591 0.0000
 10 22.57 32.900 ***** 10 22.57 32.900 ***** 22.48 536 536 0.0564
 20 22.15 32.950 ***** 20 22.15 32.950 ***** 22.64 521 522 0.1093
 30 21.43 33.170 ***** 30 21.43 33.170 ***** 23.00 486 487 0.1598
 50 18.88 33.590 ***** 50 18.88 33.590 ***** 23.99 392 393 0.2480

KOREA ,TAE BAEK SAN , STATION 205-02 , 34-15.0. N, 127-52.1. E, AUG. 6.1982, 01:25 KST, DEPTH 62 , COLOR , TRANS.
 WAVE SE 1, SWELL SE 1, WIND SE 2, BARO 1001.5, AIR TEMP. DRY 25.2, WET , CLOUD. TYPE , AMT , WEATHER B ,
 0 24.50 32.390 ***** 0 24.50 32.390 ***** 21.54 626 626 0.0000
 10 21.52 33.160 ***** 10 21.52 33.160 ***** 22.97 490 490 0.0558

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

20	19.11	33.320	****							20	19.11	33.320	****	23.73	417	418	0.1012
30	14.23	33.770	****							30	14.23	33.770	****	25.20	277	277	0.1360
50	13.16	33.870	****							50	13.16	33.870	****	25.50	248	249	0.1887

KOREA ,TAE BAEK SAN , STATION 205-03 , 34-05.5. N, 127-56.9. E, AUG. 6.1982, 00:10 KST, DEPTH 74 , COLOR , TRANS.

WAVE E 1, SWELL E 1, WIND E 2, BARG 1002.1, AIR TEMP. DRY 26.0, WET , CLOUD. TYPE CI, AMT 02, WEATHER B ,

0	24.82	32.460	****							0	24.82	32.460	****	21.50	631	630	0.0000
10	22.33	32.970	****							10	22.33	32.970	****	22.60	525	525	0.0577
20	19.58	33.250	****							20	19.58	33.250	****	23.55	434	434	0.1057
30	18.33	33.410	****							30	18.33	33.410	****	23.99	392	393	0.1471
50	16.36	33.580	****							50	16.36	33.580	****	24.59	335	336	0.2201
70	14.00	33.580	****														

KOREA ,TAE BAEK SAN , STATION 205-04 , 33-51.5. N, 128-03.0. E, AUG. 5.1982, 22:20 KST, DEPTH 87 , COLOR , TRANS.

WAVE S 1, SWELL S 1, WIND S 2, BARG 1002.8, AIR TEMP. DRY 26.8, WET , CLOUD. TYPE CI, AMT 07, WEATHER BC,

0	26.60	31.370	****							0	26.60	31.370	****	20.13	761	761	0.0000
10	25.83	31.730	****							10	25.83	31.730	****	20.64	713	713	0.0737
20	19.37	33.210	****							20	19.37	33.210	****	23.58	432	432	0.1310
30	16.90	33.710	****							30	16.90	33.710	****	24.56	338	338	0.1695
50	15.90	33.930	****							50	15.90	33.930	****	24.96	300	301	0.2335
75	14.65	34.000	****							75	14.65	34.000	****	25.29	268	270	0.3049

KOREA ,TAE BAEK SAN , STATION 205-05 , 33-37.3. N, 128-07.0. E, AUG. 5.1982, 20:30 KST, DEPTH 108 , COLOR , TRANS.

WAVE S 2, SWELL S 1, WIND S 2, BARG 1002.5, AIR TEMP. DRY 27.2, WET , CLOUD. TYPE CI, AMT 02, WEATHER F ,

0	27.00	31.270	****							0	27.00	31.270	****	19.93	781	780	0.0000
10	26.18	31.380	****							10	26.18	31.380	****	20.27	748	748	0.0764

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
20	25.05	32.320	*****							20	25.05	32.320	*****	21.32	647	648	0.1463
30	17.99	32.320	*****							30	17.99	32.320	*****	23.24	464	464	0.2019
50	16.52	33.710	*****							50	16.52	33.710	*****	24.65	329	330	0.2814
75	15.78	33.720	*****							75	15.78	33.720	*****	24.83	312	314	0.3621
100	14.83	33.790	*****							100	14.83	33.790	*****	25.09	287	290	0.4377

10月(October)

KOREA TAE BAEK SAN , STATION 205-01 , 34-22.3. N, 127-48.5. E, OCT. 8.1982, 03:05 KST, DEPTH 54 , COLOR , TRANS. ,
 WAVE SE 1, SWELL N 1, WIND N 1, BARO 1008.2 , AIR TEMP. DRY 20.6, WET , CLOUD. TYPE , AMT 00, WEATHER B. ,
 0 22.12 32.530 5.04 0 22.12 32.530 5.04 22.33 551 551 0.0000
 10 22.17 32.530 5.04 10 22.17 32.530 5.04 22.31 552 552 0.0551
 20 22.09 32.530 5.04 20 22.09 32.530 5.04 22.34 550 550 0.1103
 30 22.24 32.650 4.82 30 22.24 32.650 4.82 22.39 545 546 0.1652
 50 22.11 32.130 4.82 50 22.11 32.130 4.82 22.03 580 581 0.2780

KOREA TAE BAEK SAN , STATION 205-02 , 34-15.0. N, 127-52.1. E, OCT. 8.1982, 02:00 KST, DEPTH 60 , COLOR , TRANS. ,
 WAVE SE 1, SWELL SE 1, WIND SE 1, BARO 1008.2, AIR TEMP. DRY 20.8, WET , CLOUD. TYPE , AMT 00, WEATHER B. ,
 0 21.88 32.490 5.14 0 21.88 32.490 5.14 22.36 547 547 0.0000
 10 22.26 32.580 5.04 10 22.26 32.580 5.04 22.33 551 551 0.0549
 20 21.57 32.640 4.82 20 21.57 32.640 4.82 22.56 528 529 0.1090
 30 21.50 32.890 4.61 30 21.50 32.890 4.61 22.77 509 509 0.1609
 50 17.74 33.300 4.60 50 17.74 33.300 4.60 24.05 386 388 0.2507

KOREA TAE BAEK SAN , STATION 205-03 , 34-05.5. N, 127-56.9. E, OCT. 8.1982, 00:45 KST, DEPTH 86 , COLOR , TRANS. ,
 WAVE SE 1, SWELL SE 1, WIND SE 1, BARO 1008.4, AIR TEMP. DRY 21.3, WET , CLOUD. TYPE , AMT 00, WEATHER B. ,
 0 22.60 32.880 5.04 0 22.60 32.880 5.04 22.46 538 538 0.0000

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
10	22.63	32.890	4.93							10	22.63	32.890	4.93	22.46	539	539	0.0538
20	22.53	32.970	4.82							20	22.53	32.970	4.82	22.55	530	530	0.1073
30	21.74	33.120	4.72							30	21.74	33.120	4.72	22.88	498	499	0.1588
50	15.43	33.430	4.52							50	15.43	33.430	4.52	24.68	326	327	0.2415
75	14.82	33.740	4.41							75	14.82	33.740	4.41	25.06	291	292	0.3191
KOREA ,TAE BAEK SAN , STATION 205-04 , 33-51.5. N, 128-03.0. E, OCT. 7.1982, 23:00 KST, DEPTH 85 , COLOR , TRANS. ,																	
WAVE NE 1, SWELL NE 1, WIND NE 1, BARO 1008.7, AIR TEMP. DRY 22.1, WET , CLOUD. TYPE , AMT 00, WEATHER B ,																	
0	24.03	33.360	5.23							0	24.03	33.360	5.23	22.41	543	543	0.0000
10	24.05	33.460	5.13							10	24.05	33.460	5.13	22.48	536	537	0.0540
20	24.08	33.560	5.05							20	24.08	33.560	5.05	22.55	530	530	0.1074
30	24.06	33.880	4.98							30	24.06	33.880	4.98	22.79	506	507	0.1593
50	24.09	33.880	4.72							50	24.09	33.880	4.72	22.78	507	509	0.2610
75	23.44	33.870	4.57							75	23.44	33.870	4.57	22.97	490	492	0.3862
KOREA ,TAE BAEK SAN , STATION 205-05 , 33-37.3. N, 128-09.2. E, OCT. 7.1982, 21:15 KST, DEPTH 117 , COLOR , TRANS. ,																	
WAVE NE 1, SWELL NE 1, WIND NE 1, BARO 1008.4, AIR TEMP. DRY 22.3, WET , CLOUD. TYPE , AMT 00, WEATHER B ,																	
0	23.60	33.480	4.93							0	23.60	33.480	4.93	22.63	522	522	0.0000
10	23.66	33.490	4.88							10	23.66	33.490	4.88	22.62	523	523	0.0523
20	23.70	33.540	4.82							20	23.70	33.540	4.82	22.64	521	521	0.1046
30	23.82	33.620	4.82							30	23.82	33.620	4.82	22.67	518	519	0.1566
50	23.45	33.710	4.66							50	23.45	33.710	4.66	22.84	502	503	0.2590
75	23.30	33.770	4.29							75	23.30	33.770	4.29	22.93	493	495	0.3839
100	21.55	34.100	4.07							100	21.55	34.100	4.07	23.68	422	425	0.4991
113	19.97	34.300	4.07														

OBSERVED										INTERPOLATED					CALCULATED		
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

12月(December)

KOREA ,TAE BAEK SAN , STATION 205-01 , 34-22.3. N, 127-49.5. E, DEC.14.1982, 04:15 KST, DEPTH 54 , COLOR , TRANS.

WAVE NE 3, SWELL NE 2, WIND NE 3, BARO 1027.6, AIR TEMP. DRY 4.0, WET , CLOUD. TYPE AS, AMT 10, WEATHER C .

0	14.99	34.024	5.36							0	14.99	34.024	5.36	25.24	273	273	0.0000
10	14.99	34.027	5.34							10	14.99	34.027	5.34	25.24	273	273	0.0273
20	15.09	34.020	5.30							20	15.09	34.020	5.30	25.21	276	276	0.0548
30	15.08	34.018	5.04							30	15.08	34.018	5.04	25.21	276	276	0.0825
50	15.10	34.020	4.86							50	15.10	34.020	4.86	25.21	276	277	0.1380

KOREA ,TAE BAEK SAN , STATION 205-02 , 34-15.0. N, 127-52.1. E, DEC.14.1982, 03:00 KST, DEPTH 60 , COLOR , TRANS.

WAVE NE 3, SWELL NE 2, WIND NE 4, BARO 1027.6, AIR TEMP. DRY 4.0, WET , CLOUD. TYPE AS, AMT 10, WEATHER C .

0	15.08	34.074	5.33							0	15.08	34.074	5.33	25.26	272	271	0.0000
10	15.01	34.085	5.32							10	15.01	34.085	5.32	25.28	269	269	0.0270
20	15.21	34.087	5.10							20	15.21	34.087	5.10	25.24	273	274	0.0542
30	14.95	34.085	4.95							30	14.95	34.085	4.95	25.29	268	269	0.0814
50	14.63	34.056	4.74							50	14.63	34.056	4.74	25.34	264	265	0.1349

KOREA ,TAE BAEK SAN , STATION 205-03 , 34-05.5. N, 127-56.9. E, DEC.14.1982, 02:00 KST, DEPTH 86 , COLOR , TRANS.

WAVE NW 3, SWELL NW 2, WIND NW 4, BARO 1029. , AIR TEMP. DRY 5.6, WET , CLOUD. TYPE AS, AMT 10, WEATHER C .

0	15.73	34.179	5.12							0	15.73	34.179	5.12	25.19	278	277	0.0000
10	15.75	34.182	5.09							10	15.75	34.182	5.09	25.19	278	278	0.0278
20	15.72	34.180	4.92							20	15.72	34.180	4.92	25.19	277	278	0.0556
30	15.77	34.196	4.80							30	15.77	34.196	4.80	25.20	277	278	0.0834
50	15.78	34.256	4.62							50	15.78	34.256	4.62	25.24	273	274	0.1388
75	15.80	34.288	4.46							75	15.80	34.288	4.46	25.26	271	273	0.2073

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA ,TAE BAEK SAN , STATION 205-04 , 33-51.5. N, 128-03.0. E, DEC.14.1982, 00:10 KST, DEPTH 83 , COLOR , TRANS. ,
 WAVE NW 3, SWELL NW 2, WIND NW 4, BARO 1029. , AIR TEMP. DRY 5.8, WET , CLOUD. TYPE AS, AMT 10, WEATHER C ,
 0 17.10 34.345 5.10 0 17.10 34.345 5.10 25.00 296 295 0.0000
 10 17.10 34.236 5.02 10 17.10 34.236 5.02 24.92 304 304 0.0300
 20 17.02 ***** 4.97 20 17.02 34.205 4.97 24.91 304 304 0.0604
 30 16.53 34.174 4.87 30 16.53 34.174 4.87 25.01 296 296 0.0905
 50 16.41 34.165 4.74 50 16.41 34.165 4.74 25.03 294 295 0.1497
 75 16.34 34.133 4.50 75 16.34 34.133 4.50 25.02 294 296 0.2236

KOREA ,TAE BAEK SAN , STATION 205-05 , 33-37.3. N, 128-09.2. E, DEC.13.1982, 22:25 KST, DEPTH 115 , COLOR , TRANS. ,
 WAVE NW 3, SWELL NW 2, WIND NW 4, BARO 1029. , AIR TEMP. DRY 5.9, WET , CLOUD. TYPE AS, AMT 10, WEATHER C ,
 0 18.50 34.480 4.92 0 18.50 34.480 4.92 24.76 318 318 0.0000
 10 18.85 34.445 4.88 10 18.85 34.445 4.88 24.65 329 329 0.0324
 20 18.87 34.455 4.85 20 18.87 34.455 4.85 24.65 329 329 0.0654
 30 18.90 34.444 4.81 30 18.90 34.444 4.81 24.64 331 331 0.0984
 50 18.97 34.442 4.67 50 18.97 34.442 4.67 24.62 332 334 0.1650
 75 18.88 34.438 4.51 75 18.88 34.438 4.51 24.64 331 333 0.2485
 100 17.90 34.443 4.51 100 17.90 34.443 4.51 24.88 307 310 0.3289
 110 16.26 ***** 4.45

204線 海洋觀測 成績

Oceanographic Data. Line 204

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY

2月(February)

KOREA ,TAE BAEK SAN , STATION 204-01 , 34-20.8. N, 127-43.9. E, FEB.10.1982, 08:40 KST, DEPTH 38 , COLOR , TRANS. ,
 WAVE NW 3, SWELL NW 2, WIND NW 4, BARO 1022. , AIR TEMP. DRY .4, WET , CLOUD. TYPE CI, AMT 03, WEATHER BC,
 0 9.71 34.390 ***** 0 9.71 34.390 ***** 26.54 150 149 0.0000
 10 9.76 34.410 ***** 10 9.76 34.410 ***** 26.55 149 149 0.0149
 20 9.73 34.420 ***** 20 9.73 34.420 ***** 26.56 148 148 0.0298
 30 9.66 34.410 ***** 30 9.66 34.410 ***** 26.56 147 148 0.0446

KOREA ,TAE BAEK SAN , STATION 204-02 , 34-13.7. N, 127-35.4. E, FEB.10.1982, 10:00 KST, DEPTH 28 , COLOR 7, TRANS. 2.0,
 WAVE NW 3, SWELL NW 2, WIND NW 4, BARO 1022. , AIR TEMP. DRY 1.6, WET , CLOUD. TYPE CI, AMT 03, WEATHER BC,
 0 7.67 34.310 ***** 0 7.67 34.310 ***** 26.80 125 125 0.0000
 10 7.62 34.310 ***** 10 7.62 34.310 ***** 26.80 125 124 0.0125
 20 7.64 34.320 ***** 20 7.64 34.320 ***** 26.81 124 124 0.0250
 25 7.67 34.320 *****

KOREA ,TAE BAEK SAN , STATION 204-03 , 34-06.7. N, 127-26.8. E, FEB.10.1982, 11:20 KST, DEPTH 45 , COLOR 8, TRANS. 1.0,
 WAVE NW 3, SWELL NW 2, WIND NW 4, BARO 1022. , AIR TEMP. DRY 2.6, WET , CLOUD. TYPE CI, AMT 02, WEATHER B ,
 0 7.49 34.110 ***** 0 7.49 34.110 ***** 26.67 138 137 0.0000
 10 7.54 34.110 ***** 10 7.54 34.110 ***** 26.66 138 138 0.0138
 19 7.50 34.110 ***** 20 7.50 34.109 ***** 26.66 138 138 0.0276
 29 7.55 34.100 ***** 30 7.55 34.102 ***** 26.65 139 139 0.0416
 38 7.55 34.120 *****

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA ,TAE BAEK SAN , STATION 204-04 , 33-54.1. N, 127-15.2. E, FEB.12.1982, 09:20 KST, DEPTH 75 , COLOR 5, TRANS. 8.0, WAVE NW 3, SWELL NW 2, WIND NW 4, BARO 1022. , AIR TEMP. DRY 8.0, WET , CLOUD. TYPE AS, AMT 07, WEATHER BC,																	
0	12.46	34.470	*****							0	12.46	34.470	*****	26.10	191	191	0.0000
10	12.41	34.500	*****							10	12.41	34.500	*****	26.14	188	188	0.0189
20	12.41	34.500	*****							20	12.41	34.500	*****	26.14	188	188	0.0378
30	12.37	34.500	*****							30	12.37	34.500	*****	26.14	187	188	0.0566
50	12.37	34.490	*****							50	12.37	34.490	*****	26.14	188	189	0.0944
72	12.33	34.490	*****														
KOREA ,TAE BAEK SAN , STATION 204-05 , 33-45.5. N, 127-09.2. E, FEB.12.1982, 10:50 KST, DEPTH 90 , COLOR 5, TRANS. 11.0, WAVE NW 3, SWELL NW 2, WIND NW 4, BARO 1022. , AIR TEMP. DRY 9.0, WET , CLOUD. TYPE AS, AMT 07, WEATHER BC,																	
0	14.51	34.520	*****							0	14.51	34.520	*****	25.72	227	227	0.0000
10	14.50	34.530	*****							10	14.50	34.530	*****	25.73	226	226	0.0227
20	14.51	34.500	*****							20	14.51	34.500	*****	25.71	229	229	0.0455
30	14.55	34.500	*****							30	14.55	34.500	*****	25.70	230	230	0.0685
50	14.60	34.510	*****							50	14.60	34.510	*****	25.70	230	231	0.1147
75	14.51	34.500	*****							75	14.51	34.500	*****	25.71	229	231	0.1725
85	13.94	34.490	*****														
KOREA ,TAE BAEK SAN , STATION 204-06 , 33-35.8. N, 127-03.2. E, FEB.12.1982, 12:20 KST, DEPTH 128 , COLOR 5, TRANS. 11.0, WAVE NW 3, SWELL NW 2, WIND NW 4, BARO 1021. , AIR TEMP. DRY 8.5, WET , CLOUD. TYPE AS, AMT 09, WEATHER C ,																	
0	14.79	34.500	*****							0	14.79	34.500	*****	25.65	235	234	0.0000
10	14.89	34.530	*****							10	14.89	34.530	*****	25.65	234	234	0.0234
20	14.83	34.510	*****							20	14.83	34.510	*****	25.65	235	235	0.0469
30	14.82	34.510	*****							30	14.82	34.510	*****	25.65	234	235	0.0705
50	14.82	34.510	*****							50	14.82	34.510	*****	25.65	234	235	0.1176

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

75	14.82	34.520	*****							75	14.82	34.520	*****	25.66	234	235	0.1766
100	14.85	34.510	*****							100	14.85	34.510	*****	25.64	235	237	0.2359
109	14.84	34.510	*****														

4 月(April)

KOREA ,TAE BAEK SAN , STATION 204-01 , 34-20.8. N, 127-43.9. E, APR. 8.1982, 08:00 KST, DEPTH 38 , COLOR 8, TRANS. 3.0,
 WAVE NW 1, SWELL NW 1, WIND NW 4, BARO 1008. , AIR TEMP. DRY 13.7, WET , CLOUD. TYPE CI, AMT 01, WEATHER B ,
 0 11.98 34.310 ***** 26.07 194 194 0.0000
 10 11.72 34.430 ***** 26.21 181 181 0.0187
 20 11.69 34.440 ***** 26.23 179 180 0.0368
 30 11.68 34.460 ***** 26.24 178 178 0.0547

KOREA ,TAE BAEK SAN , STATION 204-02 , 34-13.7. N, 127-35.4. E, APR. 8.1982, 09:20 KST, DEPTH 30 , COLOR 8, TRANS. 4.0,
 WAVE NW 1, SWELL NW 1, WIND NW 4, BARO 1008. , AIR TEMP. DRY 13.8, WET , CLOUD. TYPE CI, AMT 01, WEATHER B ,
 0 11.25 34.110 ***** 26.05 196 196 0.0000
 10 11.19 34.100 ***** 26.06 196 196 0.0196
 20 11.18 34.110 ***** 26.07 195 195 0.0391
 28 11.17 34.120 *****

KOREA ,TAE BAEK SAN , STATION 204-03 , 34-06.7. N, 127-26.8. E, APR. 8.1982, 10:45 KST, DEPTH 45 , COLOR 8, TRANS. 4.0,
 WAVE NW 1, SWELL NW 1, WIND NW 4, BARO 1008. , AIR TEMP. DRY 13.2, WET , CLOUD. TYPE CI, AMT 01, WEATHER B ,
 0 11.80 34.290 ***** 26.09 192 192 0.0000
 10 11.79 34.290 ***** 26.09 192 192 0.0192
 20 11.75 34.380 ***** 26.17 185 185 0.0381
 30 11.71 34.380 ***** 26.18 184 185 0.0566

OBSERVED										INTERPOLATED					CALCULATED		
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA ,TAE BAEK SAN , STATION 204-04 , 33-54.1. N, 127-15.2. E, APR.10.1982, 08:10 KST, DEPTH 75 , COLOR 7, TRANS. 9.0, WAVE NW 1, SWELL NW 1, WIND NW 2, BARO 1015. , AIR TEMP. DRY 14.6, WET , CLOUD. TYPE , AMT , WEATHER B ,																	
0	12.28	34.400	*****							0	12.28	34.400	*****	26.08	193	193	0.0000
10	12.30	34.410	*****							10	12.30	34.410	*****	26.09	193	193	0.0193
20	12.26	34.420	*****							20	12.26	34.420	*****	26.10	191	191	0.0385
30	12.28	34.430	*****							30	12.28	34.430	*****	26.11	191	191	0.0577
50	12.19	34.410	*****							50	12.19	34.410	*****	26.11	191	191	0.0960
70	12.16	34.400	*****														
KOREA ,TAE BAEK SAN , STATION 204-05 , 33-45.5. N, 127-09.2. E, APR.10.1982, 09:36 KST, DEPTH 90 , COLOR 7, TRANS. 11.0, WAVE NW 1, SWELL NW 1, WIND NW 2, BARO 1023. , AIR TEMP. DRY 11.0, WET , CLOUD. TYPE , AMT , WEATHER B ,																	
0	15.37	34.610	*****							0	15.37	34.610	*****	25.60	239	238	0.0000
10	15.33	34.610	*****							10	15.33	34.610	*****	25.61	238	238	0.0238
20	15.17	34.590	*****							20	15.17	34.590	*****	25.63	236	236	0.0475
30	15.28	34.610	*****							30	15.28	34.610	*****	25.62	237	237	0.0713
50	15.31	34.740	*****							50	15.31	34.740	*****	25.72	228	229	0.1180
75	15.10	34.750	*****							75	15.10	34.750	*****	25.77	223	225	0.1748
85	14.52	34.740	*****														
KOREA ,TAE BAEK SAN , STATION 204-06 , 33-35.8. N, 127-03.2. E, APR.10.1982, 10:56 KST, DEPTH 128 , COLOR 5, TRANS. 11.0, WAVE NW 1, SWELL NW 1, WIND NW 2, BARO 1023. , AIR TEMP. DRY 11.0, WET , CLOUD. TYPE , AMT , WEATHER B ,																	
0	15.20	34.560	*****							0	15.20	34.560	*****	25.60	239	238	0.0000
10	15.08	34.600	*****							10	15.08	34.600	*****	25.66	233	233	0.0236
20	15.07	34.560	*****							20	15.07	34.560	*****	25.63	236	236	0.0471
30	14.94	34.560	*****							30	14.94	34.560	*****	25.66	233	234	0.0706
50	14.87	34.550	*****							50	14.87	34.550	*****	25.67	233	234	0.1175

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

75	14.89	34.550	*****							75	14.89	34.550	*****	25.66	233	235	0.1762
100	14.81	34.550	*****							100	14.81	34.550	*****	25.68	231	234	0.2348
125	14.21	34.580	*****							125	14.21	34.580	*****	25.83	217	220	0.2917

6月(June)

KOREA ,TAE BAEK SAN , STATION 204-01 , 34-20.8. N, 127-43.9. E, JUN.14.1982, 10:30 KST, DEPTH 35 , COLOR 3, TRANS. 7.0,
WAVE NE 1, SWELL NE 1, WIND NE 1, BARO 1001.7, AIR TEMP. DRY 23.7, WET , CLOUD. TYPE CI, AMT 03, WEATHER BC.

0	19.05	33.860	*****							0	19.05	33.860	*****	24.15	377	376	0.0000
10	18.79	33.850	*****							10	18.79	33.850	*****	24.21	371	371	0.0374
20	17.82	34.940	*****							20	17.82	34.940	*****	25.28	269	269	0.0694
30	15.99	34.080	*****							30	15.99	34.080	*****	25.06	291	291	0.0975

KOREA ,TAE BAEK SAN , STATION 204-02 , 34-13.7. N, 127-35.4. E, JUN.14.1982, 09:05 KST, DEPTH 28 , COLOR 4, TRANS. 7.0,
WAVE NW 1, SWELL NW 1, WIND NW 1, BARO 1006.4, AIR TEMP. DRY 22.2, WET , CLOUD. TYPE CU, AMT 05, WEATHER BC,

0	18.79	33.940	*****							0	18.79	33.940	*****	24.28	365	364	0.0000
10	18.56	33.940	*****							10	18.56	33.940	*****	24.34	359	359	0.0362
20	16.37	33.940	*****							20	16.37	33.940	*****	24.86	309	309	0.0696
25	16.01	34.080	*****														

KOREA ,TAE BAEK SAN , STATION 204-03 , 34-06.7. N, 127-26.8. E, JUN.14.1982, 07:45 KST, DEPTH 45 , COLOR 4, TRANS. 11.0,
WAVE NW 1, SWELL NW 1, WIND NW 1, BARO 1009.8, AIR TEMP. DRY 21.8, WET , CLOUD. TYPE CU, AMT 08, WEATHER C ,

0	17.78	33.970	*****							0	17.78	33.970	*****	24.65	329	329	0.0000
10	17.27	33.960	*****							10	17.27	33.960	*****	24.67	328	328	0.0328
20	16.67	34.010	*****							20	16.67	34.010	*****	24.85	311	311	0.0648
30	15.06	34.080	*****							30	15.06	34.080	*****	25.26	271	271	0.0940
40	14.07	34.130	*****														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA , TAE BAEK SAN , STATION 204-04 , 33-54.1. N, 127-15.2. E, JUN.12.1982, 12:25 KST, DEPTH 75 , COLOR 4, TRANS. 14.0,
 WAVE SW 1, SWELL SW 1, WIND SW 1, BARO 1006.5, AIR TEMP. DRY 22.5, WET , CLOUD. TYPE AS, AMT 08, WEATHER C ,
 0 20.02 *****
 10 17.77 34.130 *****
 20 17.75 34.160 *****
 30 17.64 34.160 *****
 50 17.34 34.190 *****
 70 16.43 34.260 *****

KOREA , TAE BAEK SAN , STATION 204-05 , 33-45.5. N, 127-09.2. E, JUN.12.1982, 11:05 KST, DEPTH 90 , COLOR 3, TRANS. 16.0,
 WAVE SW 1, SWELL SW 1, WIND SW 1, BARO 1007.4, AIR TEMP. DRY 23.0, WET , CLOUD. TYPE AS, AMT 07, WEATHER BC,
 0 20.89 34.090 *****
 10 19.98 34.100 *****
 20 18.97 34.260 *****
 30 17.59 34.200 *****
 50 17.06 34.230 *****
 75 15.57 34.330 *****
 85 13.84 *****

KOREA , TAE BAEK SAN , STATION 204-06 , 33-35.8. N, 127-03.2. E, JUN.12.1982, 09:35 KST, DEPTH 128 , COLOR 3, TRANS. 17.0,
 WAVE NW 1, SWELL NW 1, WIND NW 1, BARO 1007.5, AIR TEMP. DRY 22.3, WET , CLOUD. TYPE AS, AMT 07, WEATHER BC,
 0 21.90 34.110 *****
 10 21.79 34.090 *****
 20 18.72 34.170 *****
 30 17.59 34.190 *****

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY

50	16.40	34.000	*****							50	16.40	34.000	*****	24.90	305	306	0.1778
75	14.46	34.280	*****							75	14.46	34.280	*****	25.55	244	246	0.2469
100	14.00	34.350	*****							100	14.00	34.350	*****	25.70	230	232	0.3067
125	13.99	*****	*****							125	13.99	*****	*****	*****	***	***	*****

8月(August)

KOREA ,TAE BAEK SAN , STATION 204-01 , 34-20.8. N, 127-43.9. E, AUG. 6.1982, 03:13 KST, DEPTH 38 , COLOR , TRANS. ,
 WAVE SE 1, SWELL SE 1, WIND SE 2, BARO 1002.3, AIR TEMP. DRY 25.4, WET , CLOUD. TYPE CU, AMT 07, WEATHER BC,

0	23.68	32.910	*****							0	23.68	32.910	*****	22.17	566	566	0.0000
10	21.65	33.080	*****							10	21.65	33.080	*****	22.87	499	499	0.0532
20	21.17	33.230	*****							20	21.17	33.230	*****	23.12	475	476	0.1020
30	20.03	33.430	*****							30	20.03	33.430	*****	23.57	432	433	0.1474

KOREA ,TAE BAEK SAN , STATION 204-02 , 34-13.7. N, 127-35.4. E, AUG. 6.1982, 04:21 KST, DEPTH 28 , COLOR , TRANS. ,
 WAVE SE 1, SWELL SE 1, WIND SE 2, BARO 1002.1, AIR TEMP. DRY 25.2, WET , CLOUD. TYPE CI, AMT 03, WEATHER BC,

0	24.04	32.040	*****							0	24.04	32.040	*****	21.41	639	638	0.0000
10	22.23	33.150	*****							10	22.23	33.150	*****	22.77	509	509	0.0574
20	20.39	33.250	*****							20	20.39	33.250	*****	23.34	454	454	0.1056
25	18.28	33.590	*****														

KOREA ,TAE BAEK SAN , STATION 204-03 , 34-06.7. N, 127-26.8. E, AUG. 6.1982, 05:30 KST, DEPTH 45 , COLOR , TRANS. ,
 WAVE S 1, SWELL S 1, WIND S 2, BARO 1002.1, AIR TEMP. DRY 25.1, WET , CLOUD. TYPE CI, AMT 04, WEATHER BC,

0	23.71	32.050	*****							0	23.71	32.050	*****	21.52	629	629	0.0000
10	22.23	33.150	*****							10	22.23	33.150	*****	22.77	509	509	0.0569
20	20.25	33.240	*****							20	20.25	33.240	*****	23.37	451	452	0.1050
30	17.37	33.510	*****							30	17.37	33.510	*****	24.30	363	363	0.1457

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY
KOREA ,TAE BAEK SAN , STATION 204-04 , 33-54.1. N, 127-15.2. E, AUG. 8.1982, 09:30 KST, DEPTH 75 , COLOR 3, TRANS. 19.0, WAVE S 1, SWELL S 1, WIND S 2, BARO 1007.4, AIR TEMP. DRY 27.2, WET , CLOUD. TYPE CU, AMT 07, WEATHER BC,																	
0	25.66	31.650	****							0	25.66	31.650	****	20.63	713	713	0.0000
10	24.48	32.200	****							10	24.48	32.200	****	21.40	640	640	0.0676
20	21.35	32.670	****							20	21.35	32.670	****	22.65	521	521	0.1257
30	16.92	33.280	****							30	16.92	33.280	****	24.23	369	370	0.1703
50	15.52	33.850	****							50	15.52	33.850	****	24.99	297	298	0.2372
70	13.93	34.170	****														
KOREA ,TAE BAEK SAN , STATION 204-05 , 33-45.5. N, 127-09.2. E, AUG. 8.1982, 10:50 KST, DEPTH 96 , COLOR 3, TRANS. 18.0, WAVE E 1, SWELL E 1, WIND E 2, BARO 1002.5, AIR TEMP. DRY 28.1, WET , CLOUD. TYPE CI, AMT 06, WEATHER BC,																	
0	26.89	31.370	****							0	26.89	31.370	****	20.04	770	770	0.0000
10	25.08	31.460	****							10	25.08	31.460	****	20.67	710	710	0.0740
20	21.98	32.370	****							20	21.98	32.370	****	22.25	559	559	0.1375
30	18.01	33.120	****							30	18.01	33.120	****	23.85	406	406	0.1858
50	16.20	33.700	****							50	16.20	33.700	****	24.72	323	324	0.2590
75	15.27	34.010	****							75	15.27	34.010	****	25.16	280	282	0.3349
93	14.16	*****	****														
KOREA ,TAE BAEK SAN , STATION 204-06 , 33-35.8. N, 127-03.2. E, AUG. 8.1982, 12:10 KST, DEPTH 128 , COLOR 4, TRANS. 10.0, WAVE SE 1, SWELL SE 1, WIND SE 2, BARO 1007. , AIR TEMP. DRY 28.6, WET , CLOUD. TYPE CI, AMT 04, WEATHER BC,																	
0	28.30	31.220	****							0	28.30	31.220	****	19.48	824	824	0.0000
10	26.57	31.330	****							10	26.57	31.330	****	20.11	763	763	0.0794
20	22.91	32.410	****							20	22.91	32.410	****	22.02	581	581	0.1466
30	19.17	33.210	****							30	19.17	33.210	****	23.63	427	427	0.1971
50	17.36	33.540	****							50	17.36	33.540	****	24.32	360	361	0.2761

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

75	16.44	33.810	*****							75	16.44	33.810	*****	24.75	320	322	0.3616
100	14.98	33.890	*****							100	14.98	33.890	*****	25.14	283	285	0.4377
125	14.68	34.170	*****							125	14.68	34.170	*****	25.42	256	259	0.5059

10月(October)

KOREA ,TAE BAEK SAN , STATION 204-01 , 34-20.8. N, 127-43.9. E, OCT. 8.1982, 03:50 KST, DEPTH 39 , COLOR , TRANS. ,
WAVE NE 1, SWELL NE 1, WIND NE 2, BARO 1008. , AIR TEMP. DRY 20.4, WET , CLOUD. TYPE , AMT 00, WEATHER B ,
0 21.85 32.180 5.14 0 21.85 32.180 5.14 22.14 569 569 0.0000
10 21.86 32.270 5.04 10 21.86 32.270 5.04 22.20 563 563 0.0566
20 21.75 32.320 4.82 20 21.75 32.320 4.82 22.27 556 557 0.1126
30 21.56 32.510 4.72 30 21.56 32.510 4.72 22.47 538 538 0.1674

KOREA ,TAE BAEK SAN , STATION 204-02 , 34-13.7. N, 127-35.4. E, OCT. 8.1982, 05:00 KST, DEPTH 30 , COLOR , TRANS. ,
WAVE N 1, SWELL N 1, WIND NE 2, BARO 1008.2, AIR TEMP. DRY 20.2, WET , CLOUD. TYPE , AMT 00, WEATHER B ,
0 21.33 32.250 5.14 0 21.33 32.250 5.14 22.33 550 550 0.0000
10 21.28 32.280 5.04 10 21.28 32.280 5.04 22.37 547 547 0.0549
20 21.29 32.330 5.04 20 21.29 32.330 5.04 22.40 544 544 0.1095
25 21.03 32.500 4.87

KOREA ,TAE BAEK SAN , STATION 204-03 , 34-06.7. N, 127-26.8. E, OCT. 8.1982, 06:20 KST, DEPTH 45 , COLOR 5, TRANS. 11.0,
WAVE N 1, SWELL N 1, WIND NW 2, BARO 1008.3, AIR TEMP. DRY 21.8, WET , CLOUD. TYPE , AMT 00, WEATHER B ,
0 21.44 32.340 5.14 0 21.44 32.340 5.14 22.37 547 547 0.0000
10 21.49 32.360 5.14 10 21.49 32.360 5.14 22.37 547 547 0.0547
20 21.08 32.600 5.09 20 21.08 32.600 5.09 22.67 519 519 0.1080
30 20.81 32.750 4.71 30 20.81 32.750 4.71 22.85 501 502 0.1591
40 17.15 33.000 4.71

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA ,TAE BAEK SAN , STATION 204-04 , 33-54.1. N, 127-15.2. E, OCT. 8.1982, 08:15 KST, DEPTH 75 , COLOR 5, TRANS. 12.0,																	
WAVE N 1, SWELL N 1, WIND NE 2, BARO 1009.3, AIR TEMP. DRY 22.4, WET , CLOUD. TYPE , AMT 00, WEATHER B ,																	
0	21.75	32.410	5.25							0	21.75	32.410	5.25	22.34	550	550	0.0000
10	21.73	32.380	5.25							10	21.73	32.380	5.25	22.32	551	551	0.0551
20	21.61	32.550	5.20							20	21.61	32.550	5.20	22.48	536	536	0.1095
30	20.40	32.730	4.93							30	20.40	32.730	4.93	22.95	492	493	0.1610
50	16.84	32.870	4.50							50	16.84	32.870	4.50	23.93	397	399	0.2502
70	12.66	33.440	4.50														
KOREA ,TAE BAEK SAN , STATION 204-05 , 33-45.5. N, 127-09.2. E, OCT. 8.1982, 09:25 KST, DEPTH 90 , COLOR 5, TRANS. 11.0,																	
WAVE N 1, SWELL N 1, WIND N 2, BARO 1009.5, AIR TEMP. DRY 21.8, WET , CLOUD. TYPE , AMT 00, WEATHER B ,																	
0	21.11	32.390	5.36							0	21.11	32.390	5.36	22.50	535	534	0.0000
10	21.69	32.850	5.25							10	21.69	32.850	5.25	22.69	516	516	0.0525
20	19.55	33.030	4.93							20	19.55	33.030	4.93	23.39	449	449	0.1009
30	17.28	33.170	4.72							30	17.28	33.170	4.72	24.06	385	386	0.1427
50	15.85	33.510	4.55							50	15.85	33.510	4.55	24.65	329	330	0.2144
75	13.16	33.600	4.50							75	13.16	33.600	4.50	25.29	268	270	0.2895
85	14.36	33.610	4.45														
KOREA ,TAE BAEK SAN , STATION 204-06 , 33-35.8. N, 127-03.2. E, OCT. 8.1982, 10:35 KST, DEPTH 128 , COLOR 5, TRANS. 12.0,																	
WAVE NE 2, SWELL NE 1, WIND NE 3, BARO 1009.8, AIR TEMP. DRY 21.6, WET , CLOUD. TYPE , AMT 00, WEATHER B ,																	
0	22.80	33.310	5.25							0	22.80	33.310	5.25	22.73	513	512	0.0000
10	22.83	33.270	4.93							10	22.83	33.270	4.93	22.69	516	516	0.0514
20	22.78	33.760	4.82							20	22.78	33.760	4.82	23.07	480	480	0.1013
30	21.37	33.790	4.66							30	21.37	33.790	4.66	23.49	440	441	0.1474
50	20.66	33.740	4.55							50	20.66	33.740	4.55	23.64	425	427	0.2342

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY

75	18.87	33.880	4.45							75	18.87	33.880	4.45	24.21	371	373	0.3343
100	18.32	33.880	4.45							100	18.32	33.880	4.45	24.35	358	360	0.4261
125	16.05	33.920	4.16							125	16.05	33.920	4.16	24.92	304	307	0.5096

12月(December)

KOREA , TAE BAEK SAN , STATION 204-01 , 34-20.8. N, 127-43.9. E, DEC.14.1982, 04:40 KST, DEPTH 38 , COLOR , TRANS. ,																	
WAVE , SWELL NE 2, WIND NE 3, BARO 1027.3, AIR TEMP. DRY 3.7, WET , CLOUD. TYPE AS, AMT OB, WEATHER C ,																	
0	14.89	33.971	5.32							0	14.89	33.971	5.32	25.22	275	275	0.0000
10	14.91	33.979	5.23							10	14.91	33.979	5.23	25.22	275	275	0.0275
20	14.91	33.990	5.17							20	14.91	33.990	5.17	25.23	274	275	0.0550
30	14.88	33.964	5.01							30	14.88	33.964	5.01	25.21	276	276	0.0826

KOREA , TAE BAEK SAN , STATION 204-02 , 34-13.7. N, 127-35.4. E, DEC.14.1982, 05:50 KST, DEPTH 28 , COLOR , TRANS. ,																	
WAVE NE 2, SWELL NE 2, WIND NE 2, BARO 1027. , AIR TEMP. DRY 3.7, WET , CLOUD. TYPE AS, AMT OB, WEATHER C ,																	
0	11.06	33.051	5.19							0	11.06	33.051	5.19	25.26	271	271	0.0000
10	10.95	32.962	5.19							10	10.95	32.962	5.19	25.21	276	275	0.0273
20	10.93	32.991	5.04							20	10.93	32.991	5.04	25.24	273	273	0.0548
25	10.91	32.983	5.01														

KOREA , TAE BAEK SAN , STATION 204-03 , 34-06.7. N, 127-26.8. E, DEC.14.1982, 07:00 KST, DEPTH 45 , COLOR , TRANS. ,																	
WAVE NE 1, SWELL NE 1, WIND NE 2, BARO 1026. , AIR TEMP. DRY 3.6, WET , CLOUD. TYPE AC, AMT OS, WEATHER BC,																	
0	13.10	33.439	5.19							0	13.10	33.439	5.19	25.18	279	279	0.0000
10	13.24	33.471	5.21							10	13.24	33.471	5.21	25.18	279	279	0.0279
20	13.30	33.484	5.14							20	13.30	33.484	5.14	25.17	279	280	0.0559
30	13.35	33.504	4.83							30	13.35	33.504	4.83	25.18	279	279	0.0839
40	13.41	33.524	4.81														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY
KOREA ,TAE BAEK SAN , STATION 204-04 , 33-54.1. N, 127-15.2. E, DEC.15.1982, 10:30 KST, DEPTH 75 , COLOR 5, TRANS. 7.0, WAVE NW 1, SWELL NW 1, WIND NW 2, BARO 1029.5, AIR TEMP. DRY 9.4, WET , CLOUD. TYPE CI, AMT 02, WEATHER B ,																	
0	15.35	34.063	5.22							0	15.35	34.063	5.22	25.19	278	278	0.0000
10	15.56	34.026	5.22							10	15.56	34.026	5.22	25.11	285	285	0.0282
20	15.56	34.038	5.04							20	15.56	34.038	5.04	25.12	284	285	0.0567
30	15.54	34.060	4.82							30	15.54	34.060	4.82	25.14	282	283	0.0851
50	15.42	34.100	4.72							50	15.42	34.100	4.72	25.20	277	278	0.1413
70	15.53	*****	4.52														
KOREA ,TAE BAEK SAN , STATION 204-05 , 33-45.5. N, 127-09.2. E, DEC.15.1982, 11:45 KST, DEPTH 90 , COLOR 3, TRANS. 14.0, WAVE NW 1, SWELL NW 1, WIND NW 2, BARO 1028.5, AIR TEMP. DRY 9.8, WET , CLOUD. TYPE CI, AMT 03, WEATHER BC,																	
0	18.26	34.444	5.12							0	18.26	34.444	5.12	24.80	315	315	0.0000
10	18.31	34.474	5.07							10	18.31	34.474	5.07	24.81	314	314	0.0315
20	18.39	34.458	5.02							20	18.39	34.458	5.02	24.78	317	318	0.0631
30	18.42	34.436	5.02							30	18.42	34.436	5.02	24.75	320	320	0.0951
50	18.32	34.451	4.97							50	18.32	34.451	4.97	24.79	316	317	0.1590
75	18.42	34.448	4.57							75	18.42	34.448	4.57	24.76	319	321	0.2389
85	18.23	34.444	4.48														
KOREA ,TAE BAEK SAN , STATION 204-06 , 33-35.8. N, 127-03.2. E, DEC.15.1982, 12:40 KST, DEPTH 128 , COLOR 4, TRANS. 13.0, WAVE , SWELL NW 1, WIND NW 2, BARO 1027.6, AIR TEMP. DRY 7.5, WET , CLOUD. TYPE CI, AMT 03, WEATHER BC,																	
0	17.90	34.456	5.04							0	17.90	34.456	5.04	24.89	306	306	0.0000
10	18.31	34.463	5.02							10	18.31	34.463	5.02	24.80	315	315	0.0310
20	18.31	34.467	5.02							20	18.31	34.467	5.02	24.80	315	315	0.0626
30	18.28	34.450	5.04							30	18.28	34.450	5.04	24.80	315	316	0.0942
50	18.32	34.476	4.95							50	18.32	34.476	4.95	24.81	314	316	0.1575

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
75	18.35	34.468	4.80							75	18.35	34.468	4.80	24.79	316	318	0.2368
100	18.32	34.458	4.55							100	18.32	34.458	4.55	24.79	316	319	0.3165
125	18.31	34.458	4.55							125	18.31	34.458	4.55	24.79	316	319	0.3963

203線 海洋觀測 成績

Oceanographic Data. Line 203

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

2月(February)

KOREA ,TAE BAEK SAN , STATION 203-01 , 33-56.6. N, 126-31.4. E, FEB.17.1982, 09:45 KST, DEPTH 57 , COLOR 5, TRANS. 7.0,

WAVE NW 3, SWELL NW 2, WIND NW 4, BARO 1020. , AIR TEMP. DRY 6.8, WET , CLOUD. TYPE CI, AMT 07, WEATHER BC,

0	12.76	34.490	*****							0	12.76	34.490	*****	26.06	195	195	0.0000
10	12.75	34.470	*****							10	12.75	34.470	*****	26.05	197	196	0.0196
19	12.78	34.480	*****							20	12.77	34.480	*****	26.05	196	196	0.0393
29	12.74	34.480	*****							30	12.74	34.479	*****	26.06	196	196	0.0589
54	12.74	34.470	*****							50	12.74	34.471	*****	26.05	196	197	0.0984

KOREA ,TAE BAEK SAN , STATION 203-02 , 33-47.5. N, 126-26.3. E, FEB.17.1982, 08:30 KST, DEPTH 95 , COLOR 5, TRANS. 8.0,

WAVE NW 2, SWELL NW 1, WIND NW 2, BARO 1019. , AIR TEMP. DRY 6.5, WET , CLOUD. TYPE AS, AMT 08, WEATHER C ,

0	12.75	34.500	*****							0	12.75	34.500	*****	26.07	194	194	0.0000
10	12.68	34.470	*****							10	12.68	34.470	*****	26.06	195	195	0.0195
20	12.69	34.470	*****							20	12.69	34.470	*****	26.06	195	196	0.0390
30	12.69	34.460	*****							30	12.69	34.460	*****	26.05	196	197	0.0587
50	12.61	34.460	*****							50	12.61	34.460	*****	26.07	195	196	0.0980
75	12.61	34.450	*****							75	12.61	34.450	*****	26.06	195	197	0.1472
90	12.58	34.470	*****														

KOREA ,TAE BAEK SAN , STATION 203-03 , 33-38 3. N, 126-21.3. E, FEB.17.1982, 07:15 KST, DEPTH 130 , COLOR , TRANS. ,

WAVE NW 2, SWELL NW 1, WIND NW 2, BARO 1019. , AIR TEMP. DRY 6.8, WET , CLOUD. TYPE AS, AMT 10, WEATHER C ,

0	12.25	34.560	*****							0	12.25	34.560	*****	26.02	199	199	0.0000
10	13.27	34.520	*****							10	13.27	34.520	*****	25.98	203	203	0.0201
20	13.02	34.560	*****							20	13.02	34.560	*****	26.06	195	195	0.0400

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

30	13.04	34.510	*****							30	13.04	34.510	*****	26.02	199	200	0.0598
50	13.02	34.520	*****							50	13.02	34.520	*****	26.03	198	199	0.0998
75	13.06	34.520	*****							75	13.06	34.520	*****	26.02	199	200	0.1498
100	12.99	34.510	*****							100	12.99	34.510	*****	26.03	198	200	0.2000
106	12.98	34.510	*****														

4 月(April)

KOREA ,TAE BAEK SAN , STATION 203-01 , 33-56.6. N, 126-31.4. E, APR.14.1982. 12:50 KST, DEPTH 60 , COLOR 5, TRANS. 7.0,
WAVE NW 1, SWELL NW 1, WIND NW 1, BARD 1010. , AIR TEMP. DRY 15.2, WET , CLOUD. TYPE CS, AMT 02, WEATHER B ,
0 14.58 34.510 ***** 25.70 229 229 0.0000
10 14.17 34.510 ***** 25.79 221 221 0.0225
20 13.98 34.510 ***** 25.83 217 218 0.0445
30 13.97 34.550 ***** 25.86 214 215 0.0662
50 13.81 34.480 ***** 25.84 216 217 0.1095

KOREA ,TAE BAEK SAN , STATION 203-02 , 33-47.5. N, 126-24.3. E, APR.14.1982, 11:30 KST, DEPTH 95 , COLOR 5, TRANS. 10.0,
WAVE NW 1, SWELL NW 1, WIND NW 1, BARD 1011. , AIR TEMP. DRY 15.4, WET , CLOUD. TYPE CS, AMT 05, WEATHER BC,
0 14.28 34.490 ***** 25.75 225 225 0.0000
10 14.18 34.500 ***** 25.78 222 222 0.0223
20 14.08 34.490 ***** 25.79 221 221 0.0445
30 13.74 34.500 ***** 25.87 213 214 0.0663
50 13.54 34.450 ***** 25.87 213 214 0.1092
75 13.30 34.430 ***** 25.91 210 212 0.1626
90 13.04 34.410 *****

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY
KOREA ,TAE BAEK SAN , STATION 203-03 , 33-38.3. N, 126-21.3. E, APR.14.1982, 10:15 KST, DEPTH 135 , COLOR 5, TRANS. 8.0, WAVE NW 1, SWELL NW 1, WIND NW 1, BARO 1011. , AIR TEMP. DRY 16.5, WET , CLOUD. TYPE CS, AMT 07, WEATHER BC,																	
0	14.68	34.480	*****							0	14.68	34.480	*****	25.65	234	233	0.0000
10	14.22	34.500	*****							10	14.22	34.500	*****	25.77	223	223	0.0228
20	13.99	34.540	*****							20	13.99	34.540	*****	25.85	215	216	0.0448
30	13.99	34.570	*****							30	13.99	34.570	*****	25.87	213	214	0.0663
50	13.93	34.570	*****							50	13.93	34.570	*****	25.88	212	213	0.1091
75	13.93	34.590	*****							75	13.93	34.590	*****	25.90	211	212	0.1624
100	13.79	34.530	*****							100	13.79	34.530	*****	25.88	212	214	0.2158
125	13.40	34.490	*****							125	13.40	34.490	*****	25.93	207	210	0.2691

6 月(June)

KOREA ,TAE BAEK SAN , STATION 203-01 , 33-56.6. N, 126-31.4. E, JUN. 8.1982, 14:30 KST, DEPTH 55 , COLOR 4, TRANS. 13.0, WAVE WNW 2, SWELL WNW 1, WIND W 2, BARO 1008.5, AIR TEMP. DRY 23.0, WET , CLOUD. TYPE CI, AMT 07, WEATHER BC,																	
0	19.27	33.420	*****							0	19.27	33.420	*****	23.76	414	414	0.0000
10	18.09	33.600	*****							10	18.09	33.600	*****	24.19	373	373	0.0393
20	16.35	34.190	*****							20	16.35	34.190	*****	25.06	290	291	0.0725
30	14.85	34.340	*****							30	14.85	34.340	*****	25.51	247	248	0.0995
50	12.14	*****	*****							50	12.14	*****	*****	*****	***	***	*****
KOREA ,TAE BAEK SAN , STATION 203-02 , 33-47.5. N, 126-26.3. E, JUN. 8.1982, 15:50 KST, DEPTH 98 , COLOR 4, TRANS. 13.0, WAVE W 1, SWELL , WIND SW 2, BARO 1008. , AIR TEMP. DRY 21.7, WET , CLOUD. TYPE CI, AMT 07, WEATHER BC,																	
0	19.51	33.430	*****							0	19.51	33.430	*****	23.71	419	419	0.0000
10	18.76	33.520	*****							10	18.76	33.520	*****	23.97	394	394	0.0407
20	15.28	33.700	*****							20	15.28	33.700	*****	24.92	303	303	0.0756
30	13.12	33.960	*****							30	13.12	33.960	*****	25.58	241	241	0.1029

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY
50	12.79	34.160	*****							50	12.79	34.160	*****	25.80	220	221	0.1492
75	12.76	34.170	*****							75	12.76	34.170	*****	25.81	219	220	0.2045
95	11.91	34.140	*****														
KOREA ,TAE BAEK SAN , STATION 203-03 , 33-38.3. N, 126-21.3. E, JUN. 8.1982, 17:15 KST, DEPTH 130 , COLOR 4, TRANS. 12.0.																	
WAVE W 2, SWELL , WIND W 2, BARO 1007.5, AIR TEMP. DRY 21.5, WET , CLOUD. TYPE CI, AMT 09, WEATHER C ,																	
0	20.31	33.450	*****							0	20.31	33.450	*****	23.52	437	437	0.0000
10	19.61	33.610	*****							10	19.61	33.610	*****	23.82	408	408	0.0423
20	16.70	34.080	*****							20	16.70	34.080	*****	24.89	306	306	0.0781
30	15.33	34.270	*****							30	15.33	34.270	*****	25.35	263	263	0.1066
50	14.48	34.220	*****							50	14.48	34.220	*****	25.50	249	250	0.1580
75	14.18	34.200	*****							75	14.18	34.200	*****	25.55	244	246	0.2200
100	13.80	34.220	*****							100	13.80	34.220	*****	25.64	235	237	0.2806
125	13.41	34.220	*****							125	13.41	34.220	*****	25.72	227	230	0.3392

8月(August)

KOREA ,TAE BAEK SAN , STATION 203-01 , 33-56.6. N, 126-31.4. E, AUG.17.1982, 10:20 KST, DEPTH 57 , COLOR 4, TRANS. 9.0,																	
WAVE N 1, SWELL N 1, WIND N 1, BARO 1007.4, AIR TEMP. DRY 29.7, WET , CLOUD. TYPE CU, AMT 01, WEATHER B .																	
0	23.51	31.650	*****							0	23.51	31.650	*****	21.27	652	652	0.0000
10	22.56	31.830	*****							10	22.56	31.830	*****	21.68	613	613	0.0633
20	21.90	31.900	*****							20	21.90	31.900	*****	21.91	591	591	0.1235
30	21.47	31.980	*****							30	21.47	31.980	*****	22.09	574	574	0.1818
50	13.76	33.330	*****							50	13.76	33.330	*****	24.96	300	301	0.2694

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA ,TAE BAEK SAN , STATION 203-02 , 33-47.5. N, 126-26.3. E, AUG.17.1982, 09:00 KST, DEPTH 95 , COLOR 4, TRANS. 9 0,
 WAVE NW 1, SWELL NW 1, WIND NW 1, BARO 1007.5, AIR TEMP. DRY 28.2, WET , CLOUD. TYPE CU, AMT 02, WEATHER B ,
 0 25.20 31.150 ***** 0 25.20 31.150 ***** 20.40 736 736 0.0000
 10 24.04 31.160 ***** 10 24.04 31.160 ***** 20.75 702 702 0.0719
 20 23.71 31.190 ***** 20 23.71 31.190 ***** 20.87 691 691 0.1416
 30 19.15 32.220 ***** 30 19.15 32.220 ***** 22.88 498 499 0.2012
 50 14.12 33.350 ***** 50 14.12 33.350 ***** 24.90 305 306 0.2818
 75 11.47 33.760 ***** 75 11.47 33.760 ***** 25.74 226 227 0.348\$
 90 11.34 33.780 *****

KOREA ,TAE BAEK SAN , STATION 203-03 , 33-38.3. N, 126-21.3. E, AUG.17.1982, 07:40 KST, DEPTH 133 , COLOR 4, TRANS. 10.0,
 WAVE SW 1, SWELL SW 1, WIND SW 1, BARO 1007.7, AIR TEMP. DRY 25.6, WET , CLOUD. TYPE CI, AMT 02, WEATHER B ,
 0 25.60 30.760 ***** 0 25.60 30.760 ***** 19.98 776 776 0.0000
 10 25.59 30.990 ***** 10 25.59 30.990 ***** 20.16 759 759 0.0767
 20 25.48 31.210 ***** 20 25.48 31.210 ***** 20.36 740 740 0.1517
 30 24.72 32.080 ***** 30 24.72 32.080 ***** 21.24 655 656 0.2216
 50 13.03 33.260 ***** 50 13.03 33.260 ***** 25.06 291 292 0.3164
 75 12.32 33.580 ***** 75 12.32 33.580 ***** 25.44 254 255 0.3849
 100 12.24 ***** 100 12.24 33.630 ***** 25.50 249 251 0.4483
 125 11.54 33.680 ***** 125 11.54 33.680 ***** 25.67 233 235 0.5092

10月(October)

KOREA ,TAE BAEK SAN , STATION 203-01 , 33-56.6. N, 126-31.4. E, OCT.14.1982, 10:05 KST, DEPTH 58 , COLOR 4, TRANS. 10.0,
 WAVE NE 1, SWELL NE 1, WIND NE 1, BARO 1018.6, AIR TEMP. DRY 22.3, WET , CLOUD. TYPE CI, AMT 01, WEATHER B ,
 0 22.01 31.780 5.25 0 22.01 31.780 5.25 21.79 602 602 0.0000

OBSERVED										INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY	

10	21.52	31.840	5.25							10	21.52	31.840	5.25	21.97	585	585	0.0594
20	20.79	32.170	4.96							20	20.79	32.170	4.96	22.42	542	543	0.1158
30	20.42	32.790	4.79							30	20.42	32.790	4.79	22.99	488	489	0.1674
50	18.82	32.970	4.32							50	18.82	32.970	4.32	23.53	436	437	0.2601

KOREA ,TAE BAEK SAN ; STATION 203-02 ; 33-47.5. N, 126-26.3. E, OCT.14.1982, 08:50 KST, DEPTH 90 , COLOR 4, TRANS. 9.0,
 WAVE NE 1, SWELL NE 1, WIND NE 1, BARO 1018.3, AIR TEMP. DRY 22.4, WET , CLOUD. TYPE AC, AMT 03, WEATHER BC,

0	22.03	31.510	5.14							0	22.03	31.510	5.14	21.58	622	622	0.0000
10	22.40	31.660	5.05							10	22.40	31.660	5.05	21.59	621	621	0.0622
20	20.83	32.370	4.93							20	20.83	32.370	4.93	22.56	529	529	0.1198
30	16.90	32.650	4.82							30	16.90	32.650	4.82	23.75	415	415	0.1670
50	12.92	33.120	4.61							50	12.92	33.120	4.61	24.97	299	300	0.2387
75	12.66	33.300	4.50							75	12.66	33.300	4.50	25.16	281	282	0.3115
87	12.30	33.430	4.34														

KOREA ,TAE BAEK SAN ; STATION 203-03 ; 33-38.3. N, 126-21.3. E, OCT.14.1982, 07:30 KST, DEPTH 130 , COLOR 4, TRANS. 9.0,
 WAVE NE 1, SWELL NE 1, WIND NE 1, BARO 1018.2, AIR TEMP. DRY 21.4, WET , CLOUD. TYPE AC, AMT 06, WEATHER BC,

0	22.20	31.800	5.04							0	22.20	31.800	5.04	21.75	606	606	0.0000
10	22.31	31.800	5.04							10	22.31	31.800	5.04	21.72	609	609	0.0607
20	22.30	32.010	5.04							20	22.30	32.010	5.04	21.89	593	594	0.1209
30	17.35	*****	4.82							30	17.35	32.386	4.82	23.45	444	445	0.1729
50	13.76	33.140	4.75							50	13.76	33.140	4.75	24.82	314	314	0.2489
75	12.16	33.320	4.70							75	12.16	33.320	4.70	25.27	270	272	0.3223
100	11.86	33.350	4.58							100	11.86	33.350	4.58	25.35	263	265	0.3894
125	11.81	33.400	4.30							125	11.81	33.400	4.30	25.40	258	261	0.4552

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

12月(December)

KOREA ,TAE BAEK SAN , STATION 203-01 , 33-56.6. N, 126-31.4. E, DEC.19.1982, 12:10 KST, DEPTH 56 , COLOR 5, TRANS. 10.0,
 WAVE NW 1, SWELL NW 1, WIND NW 2, BARO 1029.2 , AIR TEMP. DRY 9.8, WET , CLOUD. TYPE AS, AMT 08, WEATHER C ,
 0 16.89 34.347 5.12 0 16.89 34.347 5.12 25.05 291 291 0.0000
 10 16.92 34.367 5.09 10 16.92 34.367 5.09 25.06 290 290 0.0290
 20 16.93 34.372 5.09 20 16.93 34.372 5.09 25.06 290 290 0.0581
 30 16.88 34.345 4.85 30 16.88 34.345 4.85 25.05 291 291 0.0872
 50 16.87 34.307 4.82 50 16.87 34.307 4.82 25.03 293 295 0.1459

KOREA ,TAE BAEK SAN , STATION 203-02 . 33-47.5. N, 126-26.3. E, DEC.19.1982, 11:00 KST, DEPTH 95 , COLOR 5, TRANS. 11.0,
 WAVE , SWELL NW 1, WIND NE 2, BARO 1029.2, AIR TEMP. DRY 8.5, WET , CLOUD. TYPE AS, AMT 08, WEATHER C ,
 0 16.94 34.408 5.21 0 16.94 34.408 5.21 25.09 288 287 0.0000
 10 16.96 34.404 5.12 10 16.96 34.404 5.12 25.08 288 288 0.0288
 20 17.06 34.405 5.09 20 17.06 34.405 5.09 25.06 290 291 0.0578
 30 17.07 34.419 4.89 30 17.07 34.419 4.89 25.07 290 290 0.0869
 50 17.13 34.400 4.82 50 17.13 34.400 4.82 25.04 292 294 0.1454
 75 17.10 34.401 4.82 75 17.10 34.401 4.82 25.05 292 294 0.2189
 90 17.10 34.406 4.62

KOREA ,TAE BAEK SAN , STATION 203-03 , 33-38.3. N, 126-21.3. E, DEC.19.1982, 10:00 KST, DEPTH 130 , COLOR 4, TRANS. 10.0,
 WAVE , SWELL W 1, WIND W 2, BARO 1029.2, AIR TEMP. DRY 10.3, WET , CLOUD. TYPE CU, AMT 05, WEATHER BC.
 0 17.40 34.609 5.12 0 17.40 34.609 5.12 25.13 283 283 0.0000
 10 17.34 34.521 5.08 10 17.34 34.521 5.08 25.08 288 288 0.0286
 20 17.29 34.535 5.01 20 17.29 34.535 5.01 25.10 286 287 0.0574
 30 17.35 34.515 4.87 30 17.35 34.515 4.87 25.07 287 290 0.0862

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
50	17.37	34.510	4.82							50	17.37	34.510	4.82	25.06	290	291	0.1444
75	17.36	34.510	4.82							75	17.36	34.510	4.82	25.07	290	292	0.2174
100	17.35	34.499	4.76							100	17.35	34.499	4.76	25.06	290	293	0.2906
125	17.38	34.504	4.66							125	17.38	34.504	4.66	25.06	291	294	0.3641

313線 海洋觀測 成績

Oceanographic Data. Line 313

OBSERVED										INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY	

2月(February)

KOREA , TAE BAEK SAN , STATION 313-02 , 33-24.4. N, 126-00.0. E, FEB.16.1982, 07:50 KST, DEPTH 90 , COLOR , TRANS.																	
WAVE NE 2, SWELL NE 1, WIND NE 2, BARO 1021. , AIR TEMP. DRY 6.2, WET , CLOUD. TYPE AS, AMT 08, WEATHER C ,																	
0	13.77	34.520	*****							0	13.77	34.520	*****	25.88	212	212	0.0000
10	13.76	34.520	*****							10	13.76	34.520	*****	25.88	212	212	0.0212
20	13.78	34.520	*****							20	13.78	34.520	*****	25.88	213	213	0.0425
30	13.75	34.510	*****							30	13.75	34.510	*****	25.87	213	213	0.0639
50	13.69	34.530	*****							50	13.69	34.530	*****	25.90	210	211	0.1064
75	13.66	34.520	*****							75	13.66	34.520	*****	25.90	210	212	0.1575
85 13.31 34.500 *****																	
KOREA , TAE BAEK SAN , STATION 313-03 , 33-24.4. N, 125-48.0. E, FEB.16.1982, 06:35 KST, DEPTH 92 , COLOR , TRANS.																	
WAVE NE 2, SWELL NE 1, WIND NE 2, BARO 1020.5, AIR TEMP. DRY 5.1, WET , CLOUD. TYPE AS, AMT 08, WEATHER C ,																	
0	13.10	34.490	*****							0	13.10	34.490	*****	25.99	202	201	0.0000
10	13.09	34.490	*****							10	13.09	34.490	*****	25.99	201	201	0.0201
20	13.14	34.490	*****							20	13.14	34.490	*****	25.98	202	203	0.0404
30	13.12	34.490	*****							30	13.12	34.490	*****	25.99	202	203	0.0607
50	13.11	34.490	*****							50	13.11	34.490	*****	25.99	202	203	0.1013
75	13.08	34.490	*****							75	13.08	34.490	*****	26.00	201	203	0.1522
87 13.13 34.490 *****																	
KOREA , TAE BAEK SAN , STATION 313-04 , 33-24.4. N, 125-36.0. E, FEB.16.1982, 05:20 KST, DEPTH 88 , COLOR , TRANS.																	
WAVE NW 2, SWELL NW 1, WIND N 3, BARO 1020.5, AIR TEMP. DRY 5.0, WET , CLOUD. TYPE AC, AMT 08, WEATHER C ,																	
0	12.63	34.460	*****							0	12.63	34.460	*****	26.06	195	195	0.0000
10	12.67	34.460	*****							10	12.67	34.460	*****	26.05	196	196	0.0195
20	12.66	34.470	*****							20	12.66	34.470	*****	26.06	195	195	0.0391

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

30 12.67 34.460 *****
50 12.67 34.480 *****
75 12.69 34.480 *****
81 12.74 34.490 *****

KOREA ,TAE BAEK SAN , STATION 313-05 , 33-24.4. N, 125-24.0. E, FEB.16.1982, 04:05 KST, DEPTH 84 , COLOR , TRANS.
WAVE N. 2, SWELL N 1, WIND N 3, BARO 1020.5, AIR TEMP. DRY 5.4, WET , CLOUD. TYPE AC, AMT 08, WEATHER C ,

0 12.55 34.420 *****
10 12.57 34.430 *****
20 12.56 34.450 *****
30 12.55 34.440 *****
50 12.54 34.420 *****
75 12.55 34.410 *****

KOREA ,TAE BAEK SAN , STATION 313-06 , 33-24.4. N, 125-12.0. E, FEB.16.1982, 02:50 KST, DEPTH 83 , COLOR , TRANS.
WAVE NW 2, SWELL NW 1, WIND NW 2, BARO 1021.5, AIR TEMP. DRY 4.9, WET , CLOUD. TYPE AC, AMT 10, WEATHER C ,

0 12.62 34.440 *****
10 12.66 34.430 *****
20 12.66 34.430 *****
30 12.63 34.420 *****
50 12.64 34.430 *****
78 12.64 34.420 *****

KOREA ,TAE BAEK SAN , STATION 313-07 , 33-24.4. N, 125-00.0. E, FEB.16.1982, 01:35 KST, DEPTH 75 , COLOR , TRANS.
WAVE NE 2, SWELL NE 1, WIND NE 2, BARO 1022.5, AIR TEMP. DRY 5.2, WET , CLOUD. TYPE AC, AMT 08, WEATHER C ,

0 12.71 34.450 *****
10 12.76 34.430 *****

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
20	12.70	34.360	*****							20	12.70	34.360	*****	25.97	204	204	0.0400
30	12.71	34.350	*****							30	12.71	34.350	*****	25.96	205	205	0.0605
50	12.74	34.450	*****							50	12.74	34.450	*****	26.03	198	199	0.1010
69	12.81	34.440	*****														
KOREA ,TAE BAEK SAN , STATION 313-08 , 33-24.4. N, 124-48.0. E, FEB.16.1982, 00:20 KST, DEPTH 75 , COLOR , TRANS.																	
WAVE NE 2, SWELL NE 1, WIND NE 2, BARO 1022.5, AIR TEMP. DRY 5.2, WET , CLOUD. TYPE AC, AMT 07, WEATHER BC,																	
0	12.41	34.370	*****							0	12.41	34.370	*****	26.04	198	197	0.0000
10	12.33	34.350	*****							10	12.33	34.350	*****	26.04	198	197	0.0197
20	12.29	34.350	*****							20	12.29	34.350	*****	26.04	197	197	0.0395
30	12.30	34.380	*****							30	12.30	34.380	*****	26.06	195	195	0.0592
50	12.33	34.370	*****							50	12.33	34.370	*****	26.05	196	197	0.0985
69	12.40	34.350	*****														
KOREA ,TAE BAEK SAN , STATION 313-09 , 33-24.4. N, 124-36.0. E, FEB.15.1982, 23:05 KST, DEPTH 70 , COLOR , TRANS.																	
WAVE NE 2, SWELL NE 1, WIND NE 2, BARO 1023. , AIR TEMP. DRY 5.4, WET , CLOUD. TYPE AC, AMT 07, WEATHER BC,																	
0	12.53	34.370	*****							0	12.53	34.370	*****	26.01	200	199	0.0000
10	12.50	34.380	*****							10	12.50	34.380	*****	26.03	198	198	0.0199
20	12.48	34.390	*****							20	12.48	34.390	*****	26.04	197	198	0.0397
30	12.53	34.380	*****							30	12.53	34.380	*****	26.02	199	199	0.0596
50	12.51	34.370	*****							50	12.51	34.370	*****	26.02	199	200	0.0997
62	12.58	34.380	*****														
KOREA ,TAE BAEK SAN , STATION 313-10 , 33-24.4. N, 124-24.0. E, FEB.15.1982, 21:50 KST, DEPTH 67 , COLOR , TRANS.																	
WAVE NE 1, SWELL NE 1, WIND NE 2, BARO 1023. , AIR TEMP. DRY 5.6, WET , CLOUD. TYPE CI, AMT 03, WEATHER BC,																	
0	12.60	34.400	*****							0	12.60	34.400	*****	26.02	199	199	0.0000

OBSERVED										INTERPOLATED					CALCULATED		
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
10	12.66	34.410	*****							10	12.66	34.410	*****	26.02	199	199	0.0199
20	12.64	34.400	*****							20	12.64	34.400	*****	26.01	200	200	0.0399
30	12.61	34.410	*****							30	12.61	34.410	*****	26.03	198	199	0.0599
50	12.63	34.460	*****							50	12.63	34.460	*****	26.06	195	196	0.0994
61	12.71	34.410	*****														

4月(April)

KOREA ,TAE BAEK SAN , STATION 313-02 , 33-24.4. N, 126-00.0. E, APR.13.1982, 12:40 KST, DEPTH 90 , COLOR 7, TRANS. 4.0,																	
WAVE SW 1, SWELL SW 1, WIND SE 1, BARO 1012. , AIR TEMP. DRY 15.0, WET , CLOUD. TYPE AS, AMT 08, WEATHER C ,																	
0	14.73	34.490	*****							0	14.73	34.490	*****	25.65	234	234	0.0000
10	14.53	34.480	*****							10	14.53	34.480	*****	25.69	231	231	0.0232
20	14.49	34.500	*****							20	14.49	34.500	*****	25.71	228	229	0.0462
30	14.15	34.470	*****							30	14.15	34.470	*****	25.76	224	224	0.0689
50	14.13	34.490	*****							50	14.13	34.490	*****	25.78	222	223	0.1137
75	14.07	34.480	*****							75	14.07	34.480	*****	25.78	221	223	0.1696
85	13.93	34.460	*****														

KOREA ,TAE BAEK SAN , STATION 313-03 , 33-24.4. N, 125-48.0. E, APR.13.1982, 11:20 KST, DEPTH 92 , COLOR 7, TRANS. 4.0,																	
WAVE SW 1, SWELL SW 1, WIND SE 1, BARO 1013. , AIR TEMP. DRY 15.1, WET , CLOUD. TYPE AS, AMT 08, WEATHER C ,																	
0	14.53	34.480	*****							0	14.53	34.480	*****	25.69	231	230	0.0000
10	14.44	34.500	*****							10	14.44	34.500	*****	25.72	227	227	0.0229
20	14.30	34.470	*****							20	14.30	34.470	*****	25.73	227	227	0.0456
30	14.19	34.470	*****							30	14.19	34.470	*****	25.75	225	225	0.0683
50	13.93	34.470	*****							50	13.93	34.470	*****	25.81	219	220	0.1129
75	13.86	34.500	*****							75	13.86	34.500	*****	25.84	216	217	0.1678

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA ,TAE BAEK SAN , STATION 313-04 , 33-24.4. N, 125-36.0. E, APR.13.1982, 10:00 KST, DEPTH 88 , COLOR 7, TRANS. 4.0;																	
WAVE SW 1, SWELL SW 1, WIND SE 1, BARO 1013. , AIR TEMP. DRY 14.7, WET , CLOUD. TYPE AS, AMT 08, WEATHER C ,																	
0	14.19	34.470	*****							0	14.19	34.470	*****	25.75	225	224	0.0000
10	14.08	34.480	*****							10	14.08	34.480	*****	25.78	222	222	0.0223
20	14.00	34.480	*****							20	14.00	34.480	*****	25.80	220	220	0.0444
30	13.94	34.470	*****							30	13.94	34.470	*****	25.80	220	220	0.0665
50	13.93	34.480	*****							50	13.93	34.480	*****	25.81	219	220	0.1105
75	13.92	34.480	*****							75	13.92	34.480	*****	25.82	218	220	0.1656
83	13.85	34.490	*****														
KOREA ,TAE BAEK SAN , STATION 313-05 , 33-24.4. N, 125-24.0. E, APR.13.1982, 08:40 KST, DEPTH 83 , COLOR 6, TRANS. 7.0;																	
WAVE SW 1, SWELL SW 1, WIND SE 1, BARO 1013. , AIR TEMP. DRY 14.4, WET , CLOUD. TYPE AS, AMT 08, WEATHER C ,																	
0	13.41	34.400	*****							0	13.41	34.400	*****	25.86	214	214	0.0000
10	13.39	34.420	*****							10	13.39	34.420	*****	25.88	212	212	0.0213
20	12.94	34.440	*****							20	12.94	34.440	*****	25.99	202	203	0.0421
30	12.91	34.390	*****							30	12.91	34.390	*****	25.95	205	206	0.0626
50	12.85	34.340	*****							50	12.85	34.340	*****	25.93	208	209	0.1042
75	12.77	34.360	*****							75	12.77	34.360	*****	25.96	205	207	0.1562
KOREA ,TAE BAEK SAN , STATION 313-06 , 33-24.4. N, 125-12.0. E, APR.13.1982, 07:23 KST, DEPTH 83 , COLOR , TRANS. ,																	
WAVE SW 1, SWELL SW 1, WIND SE 1, BARO 1012.5, AIR TEMP. DRY 13.0, WET , CLOUD. TYPE AS, AMT 10, WEATHER C ,																	
0	13.28	34.330	*****							0	13.28	34.330	*****	25.83	217	217	0.0000
10	13.03	34.320	*****							10	13.03	34.320	*****	25.87	213	213	0.0215
20	12.68	34.320	*****							20	12.68	34.320	*****	25.94	206	206	0.0425
30	12.63	34.320	*****							30	12.63	34.320	*****	25.95	205	206	0.0631
50	12.53	34.320	*****							50	12.53	34.320	*****	25.97	203	204	0.1042

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

75	12.44	34.310	*****							75	12.44	34.310	*****	25.98	203	204	0.1554
FOREA ,TAE BAEK SAN , STATION 313-07 , 33-24.4. N, 125-00.0. E, APR.13.1982, 06:04 KST, DEPTH 72 , COLOR , TRANS. WAVE SW 1, SWELL SW 1, WIND SE 1, BARD 1012.5, AIR TEMP. DRY 12.3, WET , CLOUD. TYPE AS, AMT 08, WEATHER C ,																	
0	12.98	34.300	*****							0	12.98	34.300	*****	25.87	213	213	0.0000
10	12.80	34.300	*****							10	12.80	34.300	*****	25.90	210	210	0.0211
20	12.16	34.290	*****							20	12.16	34.290	*****	26.02	199	199	0.0416
30	12.18	34.280	*****							30	12.18	34.280	*****	26.01	200	200	0.0617
50	12.13	34.280	*****							50	12.13	34.280	*****	26.02	199	200	0.1018
68	12.07	34.310	*****														

KOREA ,TAE BAEK SAN , STATION 313-08 , 33-24.4. N, 124-48.0. E, APR.13.1982, 04:43 KST, DEPTH 77 , COLOR , TRANS. WAVE SW 1, SWELL SW 1, WIND SE 1, BARD 1012.5, AIR TEMP. DRY 11.7, WET , CLOUD. TYPE AS, AMT 07, WEATHER BC,																	
0	12.44	34.220	*****							0	12.44	34.220	*****	25.91	209	209	0.0000
10	11.84	34.230	*****							10	11.84	34.230	*****	26.04	197	197	0.0203
20	11.54	34.310	*****							20	11.54	34.310	*****	26.15	186	186	0.0396
30	11.55	34.310	*****							30	11.55	34.310	*****	26.15	186	187	0.0583
50	11.56	34.310	*****							50	11.56	34.310	*****	26.15	187	187	0.0958
73	11.57	34.330	*****														

KOREA ,TAE BAEK SAN , STATION 313-09 , 33-24.4. N, 124-36.0. E, APR.13.1982, 03:15 KST, DEPTH 70 , COLOR , TRANS. WAVE SW 1, SWELL SW 1, WIND SE 1, BARD 1013. , AIR TEMP. DRY 10.8, WET , CLOUD. TYPE AS, AMT 07, WEATHER BC,																	
0	12.19	34.170	*****							0	12.19	34.170	*****	25.92	208	208	0.0000
10	12.10	34.190	*****							10	12.10	34.190	*****	25.96	205	205	0.0206
20	11.41	34.170	*****							20	11.41	34.170	*****	26.07	194	194	0.0407
30	11.36	34.190	*****							30	11.36	34.190	*****	26.09	192	192	0.0601

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
50	11.36	34.230	*****							50	11.36	34.230	*****	26.13	189	190	0.0984
65	11.37	34.220	*****														
KOREA ,TAE BAEK SAN , STATION 313-10 , 33-24.4. N, 124-24.0. E, APR.13.1982, 01:50 KST, DEPTH 68 , COLOR , TRANS.																	
WAVE SW 1, SWELL SW 1, WIND SW 1, BARD 1014. , AIR TEMP. DRY 10.6, WET , CLOUD. TYPE AS, AMT 07, WEATHER BC,																	
0	11.52	34.130	*****							0	11.52	34.130	*****	26.02	199	199	0.0000
10	10.87	34.140	*****							10	10.87	34.140	*****	26.14	187	187	0.0193
20	10.95	34.150	*****							20	10.95	34.150	*****	26.14	188	188	0.0381
30	10.97	34.140	*****							30	10.97	34.140	*****	26.13	189	189	0.0570
50	10.95	34.130	*****							50	10.95	34.130	*****	26.12	189	190	0.0951
63	10.89	34.120	*****														
6月(June)																	
KOREA ,TAE BAEK SAN , STATION 313-02 , 33-24.4. N, 124-00.0. E, JUN.10.1982, 10:50 KST, DEPTH 95 , COLOR 4, TRANS. 10.0,																	
WAVE NE 1, SWELL NE 1, WIND NW 1, BARD 1010. , AIR TEMP. DRY 24.6, WET , CLOUD. TYPE CS, AMT 07, WEATHER BC,																	
0	19.20	34.270	*****							0	19.20	34.270	*****	24.43	351	350	0.0000
10	18.47	34.290	*****							10	18.47	34.290	*****	24.63	332	332	0.0341
20	17.08	34.310	*****							20	17.08	34.310	*****	24.98	298	298	0.0656
30	16.13	34.310	*****							30	16.13	34.310	*****	25.20	277	277	0.0944
50	15.33	34.350	*****							50	15.33	34.350	*****	25.41	257	258	0.1481
75	15.16	34.350	*****							75	15.16	34.350	*****	25.45	253	255	0.2123
90	15.15	34.350	*****														
KOREA ,TAE BAEK SAN , STATION 313-03 , 33-24.4. N, 125-48.0. E, JUN.10.1982, 12:15 KST, DEPTH 92 , COLOR 4, TRANS. 11.0,																	
WAVE SE 1, SWELL SE 1, WIND NW 1, BARD 1009.3, AIR TEMP. DRY 24.4, WET , CLOUD. TYPE CS, AMT 07, WEATHER BC,																	
0	20.73	34.020	*****							0	20.73	34.020	*****	23.84	407	407	0.0000

OBSERVED										INTERPOLATED				CALCULATED		
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	D Y

10	20.24	34.010	*****							10	20.24	34.010	*****	23.96	395	0.0401
20	18.88	34.130	*****							20	18.88	34.130	*****	24.40	353	0.0776
30	15.83	34.130	*****							30	15.83	34.130	*****	25.13	283	0.1095
50	13.59	34.140	*****							50	13.59	34.140	*****	25.62	237	0.1617
75	13.42	34.150	*****							75	13.42	34.150	*****	25.66	233	0.2209
89	13.35	34.160	*****													

KOREA ,TAE BAEK SAN , STATION 313-04 , 33-24.4, N, 125-36.0. E, JUN.10.1982, 13:50 KST, DEPTH 88 , COLOR 4, TRANS. 13.0,
 WAVE NW 1, SWELL , WIND NW 1, BARD 1009. , AIR TEMP. DRY 27.8, WET , CLOUD. TYPE CS, AMT 07, WEATHER BC,

0	21.43	33.670	*****							0	21.43	33.670	*****	23.38	450	0.0000
10	19.71	33.940	*****							10	19.71	33.940	*****	24.05	387	0.0418
20	17.75	33.980	*****							20	17.75	33.980	*****	24.57	337	0.0781
30	14.78	34.110	*****							30	14.78	34.110	*****	25.35	263	0.1082
50	13.64	34.200	*****							50	13.64	34.200	*****	25.66	233	0.1581
75	13.57	34.220	*****							75	13.57	34.220	*****	25.69	231	0.2165
85	13.57	34.200	*****													

KOREA ,TAE BAEK SAN , STATION 313-05 , 33-24.4, N, 125-24.0. E, JUN.10.1982, 15:15 KST, DEPTH 84 , COLOR 3, TRANS. 13.0,
 WAVE NW 1, SWELL , WIND NW 1, BARD 1009.3, AIR TEMP. DRY 30.1, WET , CLOUD. TYPE CS, AMT 07, WEATHER BC,

0	20.10	33.440	*****							0	20.10	33.440	*****	23.56	433	0.0000
10	19.12	33.590	*****							10	19.12	33.590	*****	23.93	398	0.0415
20	16.67	33.860	*****							20	16.67	33.860	*****	24.73	321	0.0776
30	14.03	34.160	*****							30	14.03	34.160	*****	25.55	244	0.1059
50	13.59	34.230	*****							50	13.59	34.230	*****	25.69	230	0.1536
75	13.62	34.210	*****							75	13.62	34.210	*****	25.67	232	0.2119

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA ,TAE BAEK SAN , STATION 313-06 , 33-24.4. N, 125-12.0. E, JUN.10.1982, 16:40 KST, DEPTH 82 , COLOR 3, TRANS. 13.0,
 WAVE NE 1, SWELL , WIND NE 1, BARO 1008. , AIR TEMP. DRY 25.6, WET , CLOUD. TYPE CS, AMT 09, WEATHER C ,
 0 21.33 33.590 ***** 23.35 453 453 0.0000
 10 19.35 33.590 ***** 23.87 404 404 0.0428
 20 16.73 33.820 ***** 24.69 326 326 0.0794
 30 13.36 34.150 ***** 25.68 232 232 0.1073
 50 13.15 34.150 ***** 25.72 228 229 0.1535
 75 13.04 34.120 ***** 25.72 228 229 0.2108

KOREA ,TAE BAEK SAN , STATION 313-07 , 33-24.4. N, 125-00.0. E, JUN.10.1982, 18:05 KST, DEPTH 72 , COLOR 3, TRANS. 13.0,
 WAVE , SWELL , WIND NE 1, BARO 1007.7, AIR TEMP. DRY 24.5, WET , CLOUD. TYPE CS, AMT 09, WEATHER C ,
 0 20.78 33.010 ***** 23.06 481 481 0.0000
 10 19.79 33.020 ***** 23.32 456 456 0.0468
 20 14.48 33.600 ***** 25.02 294 294 0.0844
 30 13.20 34.110 ***** 25.68 231 232 0.1107
 50 12.82 34.100 ***** 25.75 225 226 0.1566
 67 12.44 34.060 *****

KOREA ,TAE BAEK SAN , STATION 313-08 , 33-24.4. N, 124-48.0. E, JUN.10.1982, 19:30 KST, DEPTH 76 , COLOR , TRANS. ,
 WAVE , SWELL , WIND NE 1, BARO 1008.8, AIR TEMP. DRY 22.3, WET , CLOUD. TYPE AS, AMT 07, WEATHER BC,
 0 21.07 32.740 ***** 22.77 508 508 0.0000
 10 19.22 32.920 ***** 23.39 449 449 0.0479
 20 12.67 33.820 ***** 25.56 243 243 0.0825
 30 12.87 33.930 ***** 25.60 238 239 0.1066
 50 12.75 34.070 ***** 25.74 226 227 0.1533
 72 12.77 34.070 *****

OBSERVED										INTERPOLATED					CALCULATED		
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA ,TAE BAEK SAN , STATION 313-09 , 33-24.4. N, 124-36.0. E, JUN.10.1982, 20:55 KST, DEPTH 70 , COLOR , TRANS.
 WAVE , SWELL , WIND NE 1, BARO 1008.6, AIR TEMP. DRY 21.9, WET , CLOUD. TYPE CI, AMT 02, WEATHER B ,
 0 21.10 32.820 ***** 0 21.10 32.820 ***** 22.83 503 503 0.0000
 10 18.27 32.960 ***** 10 18.27 32.960 ***** 23.66 424 424 0.0463
 20 12.60 33.580 ***** 20 12.60 33.580 ***** 25.39 259 259 0.0805
 30 12.71 33.650 ***** 30 12.71 33.650 ***** 25.42 256 256 0.1064
 50 12.80 33.780 ***** 50 12.80 33.780 ***** 25.50 248 249 0.1570
 65 11.59 33.890 *****

KOREA ,TAE BAEK SAN , STATION 313-10 , 33-24.4. N, 124-24.0. E, JUN.10.1982, 22:25 KST, DEPTH 68 , COLOR , TRANS.
 WAVE SE 1, SWELL SE 1, WIND SE 1, BARO 1008.8, AIR TEMP. DRY 21.4, WET , CLOUD. TYPE CI, AMT 03, WEATHER BC,
 0 19.90 33.080 ***** 0 19.90 33.080 ***** 23.34 454 454 0.0000
 10 18.37 ***** 10 18.37 33.510 ***** 24.06 386 386 0.0420
 20 12.32 33.940 ***** 20 12.32 33.940 ***** 25.72 228 228 0.0727
 30 11.98 33.940 ***** 30 11.98 33.940 ***** 25.78 221 222 0.0952
 50 12.17 33.960 ***** 50 12.17 33.960 ***** 25.76 223 224 0.1399
 63 11.97 33.950 *****

8月(August)

KOREA ,TAE BAEK SAN , STATION 313-02 , 33-24.4. N, 126-00.0. E, AUG.17.1982, 05:15 KST, DEPTH 90 , COLOR , TRANS.
 WAVE SW 1, SWELL SW 1, WIND SW 2, BARO 1008.5, AIR TEMP. DRY 24.6, WET , CLOUD. TYPE CI, AMT 03, WEATHER BC,
 0 25.54 30.720 ***** 0 25.54 30.720 ***** 19.97 777 777 0.0000
 10 25.48 30.790 ***** 10 25.48 30.790 ***** 20.04 770 770 0.0773
 20 24.95 31.170 ***** 20 24.95 31.170 ***** 20.49 727 728 0.1523
 30 24.39 31.330 ***** 30 24.39 31.330 ***** 20.77 700 700 0.2237

OBSERVED										INTERPOLATED					CALCULATED		
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY
50	13.65	33.530	*****							50	13.65	33.530	*****	25.14	283	284	0.3223
75	12.20	33.520	*****							75	12.20	33.520	*****	25.42	256	258	0.3901
85	12.15	33.810	*****														
KOREA ,TAE BAEK SAN , STATION 313-03 , 33-24.4. N, 125-48.0. E, AUG.17.1982, 04:00 KST, DEPTH 92 , COLOR , TRANS. ,																	
WAVE S 1, SWELL S 1, WIND S 2, BARO 1008.3, AIR TEMP. DRY 24.5, WET , CLOUD. TYPE CI, AMT 02, WEATHER B ,																	
0	24.74	31.140	*****							0	24.74	31.140	*****	20.53	724	723	0.0000
10	24.10	31.190	*****							10	24.10	31.190	*****	20.75	702	702	0.0713
20	23.81	31.210	*****							20	23.81	31.210	*****	20.85	692	693	0.1410
30	23.41	31.220	*****							30	23.41	31.220	*****	20.98	681	681	0.2098
50	16.04	32.890	*****							50	16.04	32.890	*****	24.13	379	380	0.3159
75	12.26	33.490	*****							75	12.26	33.490	*****	25.38	260	261	0.3961
87	12.13	33.600	*****														
KOREA ,TAE BAEK SAN , STATION 313-04 , 33-24.4. N, 125-36.0. E, AUG.17.1982, 02:45 KST, DEPTH 88 , COLOR , TRANS. ,																	
WAVE S 1, SWELL S 1, WIND S 2, BARO 1008.2, AIR TEMP. DRY 24.3, WET , CLOUD. TYPE CI, AMT 02, WEATHER B ,																	
0	24.46	31.330	*****							0	24.46	31.330	*****	20.75	702	702	0.0000
10	24.10	31.450	*****							10	24.10	31.450	*****	20.95	683	683	0.0692
20	23.56	31.540	*****							20	23.56	31.540	*****	21.17	662	662	0.1365
30	23.36	31.740	*****							30	23.36	31.740	*****	21.38	642	642	0.2018
50	19.34	32.500	*****							50	19.34	32.500	*****	23.04	482	484	0.3145
75	12.51	33.400	*****							75	12.51	33.400	*****	25.27	271	272	0.4091
83	12.35	33.470	*****														
KOREA ,TAE BAEK SAN , STATION 313-05 , 33-24.4. N, 125-24.0. E, AUG.17.1982, 01:30 KST, DEPTH. 84 , COLOR , TRANS. ,																	
WAVE SE 1, SWELL SE 1, WIND SE 1, BARO 1008.5, AIR TEMP. DRY 24.3, WET , CLOUD. TYPE , AMT , WEATHER F ,																	
0	24.43	31.220	*****							0	24.43	31.220	*****	20.68	709	709	0.0000

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

10	23.97	31.220	*****							10	23.97	31.220	*****	20.81	696	696	0.0702
20	23.36	31.230	*****							20	23.36	31.230	*****	21.00	678	679	0.1390
30	23.01	31.790	*****							30	23.01	31.790	*****	21.52	628	629	0.2045
50	17.86	32.330	*****							50	17.86	32.330	*****	23.28	460	461	0.3136
75	13.46	33.250	*****							75	13.46	33.250	*****	24.96	300	301	0.4089

KOREA ,TAE BAEK SAN , STATION 313-06 , 33-24.4. N, 125-12.0. E, AUG.17.1982, 00:10 KST, DEPTH 83 , COLOR , TRANS. ,

WAVE SE 1, SWELL SE 1, WIND SE 1, BARD 1008.5, AIR TEMP. DRY 24.0, WET , CLOUD. TYPE , AMT , WEATHER F ,

0	24.50	31.380	*****							0	24.50	31.380	*****	20.78	699	699	0.0000
10	23.70	31.420	*****							10	23.70	31.420	*****	21.04	674	674	0.0687
20	23.01	31.460	*****							20	23.01	31.460	*****	21.27	652	653	0.1350
30	21.15	31.700	*****							30	21.15	31.700	*****	21.96	586	586	0.1970
50	15.00	32.970	*****							50	15.00	32.970	*****	24.42	351	352	0.2909
75	11.94	33.640	*****							75	11.94	33.640	*****	25.56	243	244	0.3656

KOREA ,TAE BAEK SAN , STATION 313-07 , 33-24.4. N, 125-00.0. E, AUG.16.1982, 22:50 KST, DEPTH 75 , COLOR , TRANS. ,

WAVE S 1, SWELL S 1, WIND S 1, BARD 1008.5, AIR TEMP. DRY 24.6, WET , CLOUD. TYPE , AMT , WEATHER F ,

0	25.00	31.400	*****							0	25.00	31.400	*****	20.65	712	712	0.0000
10	23.33	31.430	*****							10	23.33	31.430	*****	21.16	663	663	0.0688
20	22.95	31.460	*****							20	22.95	31.460	*****	21.29	651	651	0.1345
30	16.27	31.600	*****							30	16.27	31.600	*****	23.09	478	478	0.1910
50	12.30	32.910	*****							50	12.30	32.910	*****	24.93	304	304	0.2693
70	11.83	33.620	*****														

KOREA ,TAE BAEK SAN , STATION 313-08 , 33-24.4. N, 124-48.0. E, AUG.16.1982, 21:35 KST, DEPTH 76 , COLOR , TRANS. ,

WAVE SE 1, SWELL SE 1, WIND SE 1, BARD 1008.5, AIR TEMP. DRY 24.5, WET , CLOUD. TYPE , AMT , WEATHER F ,

0	25.04	31.420	*****							0	25.04	31.420	*****	20.65	712	712	0.0000
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OBSERVED										INTERPOLATED				CALCULATED		
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	D-DY
10	23.78	31.460	*****							10	23.78	31.460	*****	21.05	673	0.0693
20	22.75	31.430	*****							20	22.75	31.430	*****	21.32	647	0.1354
30	15.46	31.480	*****							30	15.46	31.480	*****	23.18	469	0.1913
50	13.33	32.810	*****							50	13.33	32.810	*****	24.65	329	0.2714
72	12.25	33.680	*****													
KOREA ,TAE BAEK SAN , STATION 313-09 , 33-24.4. N, 124-36.0. E, AUG.16.1982, 20:20 KST, DEPTH 70 , COLOR , TRANS. ,																
WAVE SE 1, SWELL SE 1, WIND SE 1, BARO 1007.5, AIR TEMP. DRY 24.3, WET , CLOUD. TYPE , AMT , WEATHER F ,																
0	24.11	31.400	*****							0	24.11	31.400	*****	20.91	687	0.0000
10	23.98	31.370	*****							10	23.98	31.370	*****	20.92	685	0.0686
20	23.45	31.440	*****							20	23.45	31.440	*****	21.13	666	0.1362
30	14.06	32.200	*****							30	14.06	32.200	*****	24.03	388	0.1890
50	11.60	32.900	*****							50	11.60	32.900	*****	25.05	291	0.2572
63	11.63	33.660	*****													
KOREA ,TAE BAEK SAN , STATION 313-10 , 33-24.4. N, 124-24.0. E, AUG.16.1982, 19:00 KST, DEPTH 68 , COLOR 4, TRANS. 7.0,																
WAVE SE 2, SWELL SE 1, WIND SE 2, BARO 1006.5, AIR TEMP. DRY 24.7, WET , CLOUD. TYPE , AMT , WEATHER F ,																
0	24.35	31.260	*****							0	24.35	31.260	*****	20.73	704	0.0000
10	23.37	31.410	*****							10	23.37	31.410	*****	21.13	666	0.0685
20	22.38	31.510	*****							20	22.38	31.510	*****	21.49	632	0.1334
30	21.65	31.640	*****							30	21.65	31.640	*****	21.78	603	0.1952
50	11.43	33.000	*****							50	11.43	33.000	*****	25.16	281	0.2839
63	11.33	33.730	*****													

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY

10月(October)

KOREA ,TAE BAEK SAN , STATION 313-02 , 33-24.4. N, 126-00.0. E, OCT.10.1982, 12:12 KST, DEPTH 90 , COLOR 5, TRANS. 9.0, WAVE NE 1, SWELL NE 1, WIND N 1, BARO 1012.9, AIR TEMP. DRY 23.7, WET , CLOUD. TYPE AS, AMT 02, WEATHER B ,																	
0	22.19	32.000	5.25							0	22.19	32.000	5.25	21.91	591	591	0.0000
10	22.67	31.990	5.14							10	22.67	31.990	5.14	21.77	605	605	0.0598
20	21.87	32.080	4.93							20	21.87	32.080	4.93	22.06	577	577	0.1189
30	19.27	32.380	4.82							30	19.27	32.380	4.82	22.97	489	490	0.1723
50	15.04	32.660	4.71							50	15.04	32.660	4.71	24.18	374	375	0.2590
75	12.58	33.400	4.50							75	12.58	33.400	4.50	25.25	272	273	0.3402
87	12.54	33.410	4.35														

KOREA ,TAE BAEK SAN , STATION 313-03 , 33-24.4. N, 125-48.0. E, OCT.12.1982, 10:45 KST, DEPTH 95 , COLOR 5, TRANS. 9.0, WAVE NE 1, SWELL NE 1, WIND N 2, BARO 1020.1, AIR TEMP. DRY 23.1, WET , CLOUD. TYPE AS, AMT 02, WEATHER B ,																	
0	22.07	31.640	5.27							0	22.07	31.640	5.27	21.67	614	614	0.0000
10	22.07	31.700	5.00							10	22.07	31.700	5.00	21.71	610	610	0.0612
20	22.03	31.860	4.82							20	22.03	31.860	4.82	21.85	597	597	0.1216
30	19.21	32.360	4.71							30	19.21	32.360	4.71	22.97	490	490	0.1760
50	14.02	32.760	4.66							50	14.02	32.760	4.66	24.47	346	347	0.2598
75	12.64	33.360	4.45							75	12.64	33.360	4.45	25.21	276	278	0.3381
90	12.70	33.440	4.35														

KOREA ,TAE BAEK SAN , STATION 313-04 , 33-24.4. N, 125-36.0. E, OCT.12.1982, 09:30 KST, DEPTH 90 , COLOR 6, TRANS. 9.0, WAVE NE 1, SWELL NE 1, WIND N 2, BARO 1020.1, AIR TEMP. DRY 22.8, WET , CLOUD. TYPE AS, AMT 02, WEATHER B ,																	
0	22.05	31.550	5.14							0	22.05	31.550	5.14	21.61	620	620	0.0000
10	22.06	31.490	5.08							10	22.06	31.490	5.08	21.56	625	625	0.0622
20	22.00	31.530	5.04							20	22.00	31.530	5.04	21.61	620	620	0.1245
30	18.63	32.290	4.61							30	18.63	32.290	4.61	23.06	481	481	0.1797

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
50	13.48	32.790	4.50							50	13.48	32.790	4.50	24.60	334	335	0.2614
75	12.45	33.220	4.35							75	12.45	33.220	4.35	25.14	283	284	0.3389
85	12.30	33.320	4.25														
KOREA ,TAE BAEK SAN , STATION 313-05 , 33-24.4. N, 125-24.0. E, OCT.12.1982, 08:15 KST, DEPTH 84 , COLOR 4, TRANS. 11.0,																	
WAVE NE 1, SWELL NE 1, WIND N 2, BARO 1019.7, AIR TEMP. DRY 21.9, WET , CLOUD. TYPE AS, AMT 02, WEATHER B ,																	
0	21.95	31.670	5.14							0	21.95	31.670	5.14	21.73	609	608	0.0000
10	22.09	31.880	5.14							10	22.09	31.880	5.14	21.85	597	597	0.0603
20	22.34	32.280	5.04							20	22.34	32.280	5.04	22.08	575	575	0.1189
30	21.39	32.500	4.50							30	21.39	32.500	4.50	22.51	534	535	0.1745
50	16.68	32.990	4.45							50	16.68	32.990	4.45	24.06	385	386	0.2667
75	14.08	33.300	4.07							75	14.08	33.300	4.07	24.87	308	310	0.3538
KOREA ,TAE BAEK SAN , STATION 313-06 , 33-24.4. N, 125-12.0. E, OCT.12.1982, 07:00 KST, DEPTH 83 , COLOR 3, TRANS. 15.0,																	
WAVE NE 1, SWELL NE 1, WIND N 2, BARO 1019.5, AIR TEMP. DRY 21.2, WET , CLOUD. TYPE AS, AMT 02, WEATHER B ,																	
0	22.57	32.380	5.14							0	22.57	32.380	5.14	22.09	574	573	0.0000
10	22.92	32.570	5.09							10	22.92	32.570	5.09	22.13	570	570	0.0572
20	23.38	32.990	4.89							20	23.38	32.990	4.89	22.32	552	552	0.1133
30	23.58	33.040	4.61							30	23.58	33.040	4.61	22.30	554	554	0.1687
50	14.47	33.090	4.39							50	14.47	33.090	4.39	24.63	331	332	0.2574
75	12.55	33.280	4.18							75	12.55	33.280	4.18	25.17	280	282	0.3343
KOREA ,TAE BAEK SAN , STATION 313-07 , 33-24.4. N, 125-00.0. E, OCT.12.1982, 05:50 KST, DEPTH 72 , COLOR , TRANS. ,																	
WAVE NE 1, SWELL NE 1, WIND NE 2, BARO 1019.3, AIR TEMP. DRY 20.0, WET , CLOUD. TYPE C1, AMT 03, WEATHER BC,																	
0	22.09	31.670	5.46							0	22.09	31.670	5.46	21.69	612	612	0.0000
10	22.36	31.670	5.25							10	22.36	31.670	5.25	21.61	620	620	0.0616
20	20.38	32.010	4.93							20	20.38	32.010	4.93	22.40	544	544	0.1198

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

30 17.88 32.660 4.64
50 14.59 32.740 4.50
68 12.54 33.180 4.18

KOREA , TAE BAEK SAN , STATION 313-08 , 33-24.4. N, 124-48.0. E, OCT.12.1982, 04:35 KST, DEPTH 76 , COLOR , TRANS. ,
WAVE NE 1, SWELL NE 1, WIND NE 1, BARO 1019.6, AIR TEMP. DRY 19.6, WET , CLOUD. TYPE , AMT 00, WEATHER B ,
0 22.30 31.610 5.44 0 22.30 31.610 5.44 21.58 622 622 0.0000
10 22.49 31.680 5.04 10 22.49 31.680 5.04 21.58 622 622 0.0622
20 22.22 32.440 4.82 20 22.22 32.440 4.82 22.23 560 560 0.1214
30 19.04 33.150 4.61 30 19.04 33.150 4.61 23.62 428 429 0.1709
50 13.71 33.450 4.45 50 13.71 33.450 4.45 25.07 290 291 0.2429
70 12.37 33.440 4.29

KOREA , TAE BAEK SAN , STATION 313-09 , 33-24.4. N, 124-36.0. E, OCT.12.1982, 03:05 KST, DEPTH 70 , COLOR , TRANS. ,
WAVE NE 1, SWELL NE 1, WIND NE 1, BARO 1019.7, AIR TEMP. DRY 19.8, WET , CLOUD. TYPE , AMT , WEATHER B ,
0 22.23 31.560 5.41 0 22.23 31.560 5.41 21.56 624 624 0.0000
10 22.32 31.740 5.11 10 22.32 31.740 5.11 21.68 613 613 0.0619
20 21.68 32.350 5.04 20 21.68 32.350 5.04 22.31 552 553 0.1202
30 22.61 32.480 4.74 30 22.61 32.480 4.74 22.15 568 568 0.1763
50 16.88 32.950 4.39 50 16.88 32.950 4.39 23.99 393 394 0.2726
65 13.19 33.120 4.39

KOREA , TAE BAEK SAN , STATION 313-10 , 33-24.4. N, 124-24.0. E, OCT.12.1982, 02:00 KST, DEPTH 82 , COLOR , TRANS. ,
WAVE NE 1, SWELL NE 1, WIND NE 1, BARO 1019.2, AIR TEMP. DRY 19.8, WET , CLOUD. TYPE CU, AMT 02, WEATHER B ,
0 22.15 31.740 5.25 0 22.15 31.740 5.25 21.72 609 609 0.0000
10 22.31 31.830 5.15 10 22.31 31.830 5.15 21.75 607 607 0.0608

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
20	22.95	32.260	5.00							20	22.95	32.260	5.00	21.89	593	593	0.1208
30	22.37	32.570	4.85							30	22.37	32.570	4.85	22.29	555	555	0.1783
50	13.01	32.890	4.70							50	13.01	32.890	4.70	24.77	318	318	0.2657
75	11.25	33.090	4.50							75	11.25	33.090	4.50	25.26	271	272	0.3397

12月(December)

KOREA , TAE BAEK SAN , STATION 313-02 , 33-24.4. N, 126-00.0. E, DEC.17.1982, 05:50 KST, DEPTH 90 , COLOR , TRANS. ,
 WAVE , SWELL NW 3, WIND NW 6, BARO 1018.7, AIR TEMP. DRY 8.3, WET , CLOUD. TYPE NS, AMT 10, WEATHER R ,
 0 17.61 34.590 5.38 0 17.61 34.590 5.38 25.07 290 289 0.0000
 10 17.59 34.587 4.90 10 17.59 34.587 4.90 25.07 289 289 0.0289
 20 17.62 34.582 4.92 20 17.62 34.582 4.92 25.06 290 291 0.0580
 30 17.66 34.535 4.91 30 17.66 34.535 4.91 25.01 295 295 0.0873
 50 17.59 34.532 4.77 50 17.59 34.532 4.77 25.03 293 295 0.1464
 75 17.64 34.517 4.62 75 17.64 34.517 4.62 25.00 296 298 0.2206
 85 17.62 34.515 4.52

KOREA , TAE BAEK SAN , STATION 313-03 , 33-24.4. N, 125-48.0. E, DEC.17.1982, 04:40 KST, DEPTH 92 , COLOR , TRANS. ,
 WAVE NW 5, SWELL NW 3, WIND NW 6, BARO 1018.5, AIR TEMP. DRY 8.3, WET , CLOUD. TYPE NS, AMT 10, WEATHER C ,
 0 17.55 34.488 5.02 0 17.55 34.488 5.02 25.00 296 295 0.0000
 10 17.62 34.482 4.98 10 17.62 34.482 4.98 24.98 298 298 0.0296
 20 17.56 34.498 4.93 20 17.56 34.498 4.93 25.01 295 295 0.0594
 30 17.65 34.502 4.93 30 17.65 34.502 4.93 24.99 297 298 0.0891
 50 17.63 34.493 4.78 50 17.63 34.493 4.78 24.99 297 298 0.1487
 75 17.70 34.498 4.78 75 17.70 34.498 4.78 24.98 298 300 0.2237
 85 17.64 34.561 4.83

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY

KOREA , TAE BAEK SAN , STATION 313-04 , 33-24.4. N, 125-34.0. E, DEC.17.1982, 03:30 KST, DEPTH 88 , COLOR , TRANS.
 WAVE NW 5, SWELL NW 3, WIND NW 6, BARO 1018. , AIR TEMP. DRY 9.0, WET , CLOUD. TYPE NS, AMT 10, WEATHER F,
 0 17.63 34.470 5.12 0 17.63 34.470 5.12 24.97 299 298 0.0000
 10 17.63 34.475 5.10 10 17.63 34.475 5.10 24.97 298 298 0.0298
 20 17.67 34.475 5.02 20 17.67 34.475 5.02 24.97 299 300 0.0598
 30 17.64 34.469 4.93 30 17.64 34.469 4.93 24.97 299 300 0.0878
 50 17.66 34.481 4.93 50 17.66 34.481 4.93 24.97 299 300 0.1499
 75 17.63 34.486 4.93 75 17.63 34.486 4.93 24.98 298 300 0.2249
 85 17.62 34.479 4.93

KOREA , TAE BAEK SAN , STATION 313-05 , 33-24.4. N, 125-24.0. E, DEC.17.1982, 02:20 KST, DEPTH 84 , COLOR , TRANS.
 WAVE NW 5, SWELL NW 3, WIND NW 6, BARO 1019. , AIR TEMP. DRY 9.2, WET , CLOUD. TYPE NS, AMT 10, WEATHER C ,
 0 17.44 34.473 5.12 0 17.44 34.473 5.12 25.02 294 294 0.0000
 10 17.44 34.465 5.12 10 17.44 34.465 5.12 25.01 295 295 0.0294
 20 17.49 34.469 5.12 20 17.49 34.469 5.12 25.00 296 296 0.0590
 30 17.48 34.480 4.92 30 17.48 34.480 4.92 25.01 295 295 0.0886
 50 17.52 34.487 4.92 50 17.52 34.487 4.92 25.01 295 296 0.1479
 75 17.53 34.481 4.60 75 17.53 34.481 4.60 25.00 296 298 0.2222

KOREA , TAE BAEK SAN , STATION 313-06 , 33-24.4. N, 125-12.0. E, DEC.17.1982, 01:10 KST, DEPTH 83 , COLOR , TRANS.
 WAVE NW 5, SWELL NW 3, WIND NW 6, BARO 1016. , AIR TEMP. DRY 9.6, WET , CLOUD. TYPE NS, AMT 10, WEATHER C ,
 0 17.22 34.495 5.12 0 17.22 34.495 5.12 25.09 288 287 0.0000
 10 17.32 34.485 5.12 10 17.32 34.485 5.12 25.06 291 291 0.0289
 20 17.43 34.474 5.12 20 17.43 34.474 5.12 25.02 294 294 0.0582
 30 17.41 34.445 5.07 30 17.41 34.445 5.07 25.00 296 296 0.0877

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY

50 17.42 34.436 5.02
75 17.41 34.455 5.02

KOREA , TAE BAEK SAN , STATION 313-07 , 33-24.4. N, 125-00.0. E, DEC.16.1982, 00:20 KST, DEPTH 72 , COLOR , TRANS. ,
WAVE NW 5, SWELL NW 3, WIND NW 5, BARO 1018.8, AIR TEMP. DRY 6.7, WET , CLOUD. TYPE NS, AMT 10, WEATHER C ,
0 17.29 34.458 5.32 0 17.29 34.458 5.32 25.04 292 292 0.0000
10 17.42 34.473 5.27 10 17.42 34.473 5.27 25.02 294 294 0.0293
20 17.45 34.490 5.12 20 17.45 34.490 5.12 25.03 293 293 0.0587
30 17.46 34.492 5.12 30 17.46 34.492 5.12 25.03 293 294 0.0881
50 17.48 34.541 5.12 50 17.48 34.541 5.12 25.06 290 291 0.1467
68 17.42 34.552 5.12

KOREA , TAE BAEK SAN , STATION 313-08 , 33-24.4. N, 124-48.0. E, DEC.16.1982, 22:50 KST, DEPTH 76 , COLOR , TRANS. ,
WAVE NW 4, SWELL NW 2, WIND NW 5, BARO 1018.9, AIR TEMP. DRY 6.5, WET , CLOUD. TYPE NS, AMT 10, WEATHER R ,
0 16.73 34.424 5.17 0 16.73 34.424 5.17 25.15 282 281 0.0000
10 17.34 34.435 5.15 10 17.34 34.435 5.15 25.01 295 295 0.0288
20 17.38 34.436 5.12 20 17.38 34.436 5.12 25.01 296 296 0.0584
30 17.45 34.453 5.12 30 17.45 34.453 5.12 25.00 296 296 0.0880
50 17.40 34.446 5.07 50 17.40 34.446 5.07 25.01 295 296 0.1474
70 17.44 34.456 4.92

KOREA , TAE BAEK SAN , STATION 313-09 , 33-24.4. N, 124-36.0. E, DEC.16.1982, 21:40 KST, DEPTH 70 , COLOR , TRANS. ,
WAVE NW 4, SWELL NW 2, WIND NW 4, BARO 1019.6, AIR TEMP. DRY 10.2, WET , CLOUD. TYPE NS, AMT 10, WEATHER C ,
0 16.75 34.411 5.27 0 16.75 34.411 5.27 25.14 283 283 0.0000
10 17.32 34.410 5.22 10 17.32 34.410 5.22 25.00 296 296 0.0289
20 17.33 34.408 5.22 20 17.33 34.408 5.22 25.00 296 297 0.0586

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

30	17.44	34.409	5.17							30	17.44	34.409	5.17	24.97	299	299	0.0885
50	17.43	34.421	5.08							50	17.43	34.421	5.08	24.98	298	299	0.1484
65	17.45	34.423	4.89														

KOREA , TAE BAEK SAN , STATION 313-10 , 33-24.4. N, 124-24.0. E, DEC.16.1982, 20:30 KST, DEPTH 68 , COLOR , TRANS. ,

WAVE NW 3, SWELL NW 3, WIND NW 4, BARO 1020. , AIR TEMP. DRY 10.5, WET , CLOUD. TYPE NS, AMT 10, WEATHER C ,

0	16.71	34.277	5.42							0	16.71	34.277	5.42	25.04	292	292	0.0000
10	17.20	34.283	5.27							10	17.20	34.283	5.27	24.93	303	303	0.0297
20	17.22	*****	5.22							20	17.22	34.289	5.22	24.93	303	303	0.0600
30	17.24	34.296	5.22							30	17.24	34.296	5.22	24.93	303	303	0.0904
50	17.27	34.296	5.17							50	17.27	34.296	5.17	24.92	303	304	0.1512
63	17.21	34.297	4.92														

314線 海洋觀測 成績

Oceanographic Data. Line 314

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

2月(February)

KOREA , TAE BAEK SAN , STATION 314-00 , 33-00.0. N, 128-00.0. E, FEB.12.1982, 22:30 KST, DEPTH 160 , COLOR , TRANS. ,																	
WAVE NW 4, SWELL NW 2, WIND NW 4, BARO 1020.5, AIR TEMP. DRY 9.5, WET , CLOUD. TYPE AS, AMT 01, WEATHER B ,																	
0	15.20	34.550	*****							0	15.20	34.550	*****	25.59	239	239	0.0000
10	15.18	34.570	*****							10	15.18	34.570	*****	25.61	238	238	0.0238
20	15.25	34.550	*****							20	15.25	34.550	*****	25.58	240	241	0.0478
30	15.20	34.550	*****							30	15.20	34.550	*****	25.59	239	240	0.0719
50	15.06	34.570	*****							50	15.06	34.570	*****	25.64	235	236	0.1196
75	15.07	34.570	*****							75	15.07	34.570	*****	25.64	235	237	0.1788
100	15.04	34.570	*****							100	15.04	34.570	*****	25.65	235	237	0.2382
125	15.04	34.570	*****							125	15.04	34.570	*****	25.65	235	238	0.2977
150	15.04	34.570	*****							150	15.04	34.570	*****	25.65	235	238	0.3574
KOREA , TAE BAEK SAN , STATION 314-01 , 33-00.0. N, 127-42.0. E, FEB.13.1982, 00:20 KST, DEPTH 140 , COLOR , TRANS. ,																	
WAVE NW 4, SWELL NW 3, WIND NW 5, BARO 1020.5, AIR TEMP. DRY 8.4, WET , CLOUD. TYPE AS, AMT 01, WEATHER B ,																	
0	14.89	34.540	*****							0	14.89	34.540	*****	25.66	234	233	0.0000
10	14.87	34.530	*****							10	14.87	34.530	*****	25.65	234	234	0.0234
20	14.92	34.530	*****							20	14.92	34.530	*****	25.64	235	235	0.0469
30	14.92	34.510	*****							30	14.92	34.510	*****	25.63	236	237	0.0705
50	14.87	34.520	*****							50	14.87	34.520	*****	25.64	235	236	0.1179
75	14.85	34.520	*****							75	14.85	34.520	*****	25.65	234	236	0.1770
100	14.83	34.500	*****							100	14.83	34.500	*****	25.64	235	238	0.2364
120	14.83	34.490	*****							125	14.83	34.497	*****	25.63	236	239	0.2961
127	14.84	34.500	*****														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA , TAE BAEK SAN , STATION 314-02 , 33-00.0. N, 127-24.0. E, FEB.13.1982, 02:20 KST, DEPTH 125 , COLOR , TRANS.

WAVE NW 4, SWELL NW 3, WIND NW 5, BARO 1020.5, AIR TEMP. DRY 8.2, WET , CLOUD. TYPE , AMT , WEATHER B ,

0	14.95	34.520	*****							0	14.95	34.520	*****	25.63	236	236	0.0000
10	14.90	34.500	*****							10	14.90	34.500	*****	25.62	237	237	0.0236
20	14.88	34.490	*****							20	14.88	34.490	*****	25.62	237	237	0.0474
30	14.97	34.500	*****							30	14.97	34.500	*****	25.61	238	239	0.0713
51	15.00	34.500	*****							50	14.99	34.500	*****	25.60	239	240	0.1192
76	14.94	34.530	*****							75	14.94	34.528	*****	25.64	236	237	0.1790
101	14.93	34.500	*****							100	14.93	34.501	*****	25.62	237	240	0.2388
106	15.00	34.500	*****														

KOREA , TAE BAEK SAN , STATION 314-03 , 33-00.0. N, 127-06.0. E, FEB.13.1982, 04:20 KST, DEPTH 110 , COLOR , TRANS.

WAVE NW 5, SWELL NW 3, WIND NW 6, BARO 1022. , AIR TEMP. DRY 7.2, WET , CLOUD. TYPE , AMT , WEATHER B ,

0	15.10	34.550	*****							0	15.10	34.550	*****	25.62	237	237	0.0000
10	15.32	34.530	*****							10	15.32	34.530	*****	25.55	243	243	0.0240
19	15.34	34.550	*****							20	15.34	34.547	*****	25.56	243	243	0.0484
29	15.38	34.520	*****							30	15.37	34.520	*****	25.53	245	246	0.0729
52	15.34	34.540	*****							50	15.34	34.538	*****	25.55	243	244	0.1220
76	15.33	34.540	*****							75	15.33	34.540	*****	25.56	243	245	0.1833
100	15.41	34.530	*****							100	15.41	34.530	*****	25.53	245	248	0.2449

KOREA , TAE BAEK SAN , STATION 314-04 , 33-00.0. N, 126-48.0. E, FEB.13.1982, 06:20 KST, DEPTH 100 , COLOR , TRANS.

WAVE NW 5, SWELL NW 3, WIND NW 6, BARO 1022. , AIR TEMP. DRY 5.6, WET , CLOUD. TYPE , AMT , WEATHER B ,

0	15.48	34.540	*****							0	15.48	34.540	*****	25.53	246	246	0.0000
10	15.54	34.550	*****							10	15.54	34.550	*****	25.52	247	247	0.0246
19	15.53	34.540	*****							20	15.53	34.541	*****	25.51	247	247	0.0494

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY
29	15.56	34.550	*****							30	15.56	34.550	*****	25.51	247	248	0.0742
52	15.58	34.550	*****							50	15.57	34.550	*****	25.51	247	249	0.1239
76	15.52	34.530	*****							75	15.52	34.530	*****	25.51	248	249	0.1862
92	15.57	34.530	*****														
KOREA ,TAE BAEK SAN , STATION 314-05 , 33-00.0. N, 126-30.0. E, FEB.13.1982, 08:20 KST, DEPTH 100 , COLOR , TRANS.																	
WAVE NE 4, SWELL NE 3, WIND NE 5, BARO 1022. , AIR TEMP. DRY 9.0, WET , CLOUD. TYPE , AMT , WEATHER B ,																	
0	14.40	34.480	*****							0	14.40	34.480	*****	25.71	228	228	0.0000
10	14.77	34.440	*****							10	14.77	34.440	*****	25.60	239	238	0.0233
19	14.78	34.440	*****							20	14.78	34.440	*****	25.60	239	239	0.0472
29	14.81	34.440	*****							30	14.80	34.440	*****	25.60	239	240	0.0712
52	14.80	34.450	*****							50	14.80	34.449	*****	25.60	238	240	0.1193
76	14.78	34.450	*****							75	14.78	34.450	*****	25.61	238	240	0.1793
94	14.76	34.440	*****														
FOREA ,TAE BAEK SAN , STATION 314-06 , 33-00.0. N, 126-12.0. E, FEB.15.1982, 09:50 KST, DEPTH 110 , COLOR 3, TRANS. 12.0,																	
WAVE NW 2, SWELL NW 1, WIND NW 3, BARO 1023. , AIR TEMP. DRY 7.9, WET , CLOUD. TYPE CI, AMT 02, WEATHER B ,																	
0	14.28	34.470	*****							0	14.28	34.470	*****	25.73	226	226	0.0000
10	14.28	34.480	*****							10	14.28	34.480	*****	25.74	226	226	0.0226
20	14.32	34.460	*****							20	14.32	34.460	*****	25.72	228	228	0.0453
30	14.28	34.460	*****							30	14.28	34.460	*****	25.72	227	228	0.0681
50	14.30	34.490	*****							50	14.30	34.490	*****	25.74	225	226	0.1136
74	14.22	34.470	*****							75	14.22	34.470	*****	25.75	225	227	0.1704
101	14.24	34.470	*****							100	14.23	34.470	*****	25.74	226	228	0.2274
KOREA ,TAE BAEK SAN , STATION 314-07 , 33-00.0. N, 125-54.0. E, FEB.15.1982, 11:35 KST, DEPTH 90 , COLOR 3, TRANS. 12.0,																	
WAVE NW 2, SWELL NW 1, WIND NW 3, BARO 1023. , AIR TEMP. DRY 7.9, WET , CLOUD. TYPE CI, AMT 02, WEATHER B ,																	
0	13.78	34.530	*****							0	13.78	34.530	*****	25.88	212	212	0.0000

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

10	13.78	34.550	*****							10	13.78	34.550	*****	25.90	210	210	0.0211
20	13.76	34.520	*****							20	13.76	34.520	*****	25.88	212	213	0.0423
30	13.78	34.510	*****							30	13.78	34.510	*****	25.87	213	214	0.0637
50	13.79	34.510	*****							50	13.79	34.510	*****	25.87	214	215	0.1066
75	13.79	34.520	*****							75	13.79	34.520	*****	25.87	213	215	0.1604
84	13.86	34.500	*****														

KOREA , TAE BAEK SAN , STATION 314-08 , 33-00.0. N, 125-36.0. E, FEB.15.1982, 13:20 KST, DEPTH 90 , COLOR 4, TRANS. 8.0,
 WAVE NW 2, SWELL NW 1, WIND NW 3, BARO 1022. , AIR TEMP. DRY 11.2, WET , CLOUD. TYPE C1, AMT 02, WEATHER B ,

0	13.59	34.500	*****							0	13.59	34.500	*****	25.90	210	210	0.0000
10	13.63	34.500	*****							10	13.63	34.500	*****	25.89	211	211	0.0211
20	13.66	34.510	*****							20	13.66	34.510	*****	25.89	211	211	0.0422
30	13.64	34.520	*****							30	13.64	34.520	*****	25.91	210	210	0.0634
50	13.63	34.510	*****							50	13.63	34.510	*****	25.90	210	211	0.1057
75	13.64	34.510	*****							75	13.64	34.510	*****	25.90	211	212	0.1588
85	13.56	34.490	*****														

KOREA , TAE BAEK SAN , STATION 314-09 , 33-00.0. N, 125-18.0. E, FEB.15.1982, 15:05 KST, DEPTH 80 , COLOR 5, TRANS. 10.0,
 WAVE NW 3, SWELL NW 2, WIND NW 4, BARO 1021.5, AIR TEMP. DRY 6.7, WET , CLOUD. TYPE C1, AMT 03, WEATHER BC,

0	13.58	34.480	*****							0	13.58	34.480	*****	25.89	212	211	0.0000
10	13.60	34.500	*****							10	13.60	34.500	*****	25.90	211	211	0.0211
20	13.57	34.500	*****							20	13.57	34.500	*****	25.90	210	210	0.0422
30	13.51	34.480	*****							30	13.51	34.480	*****	25.90	210	211	0.0633
50	13.32	34.460	*****							50	13.32	34.460	*****	25.92	208	209	0.1054
75	13.28	34.460	*****							75	13.28	34.460	*****	25.93	207	209	0.1578

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA ,TAE BAEK SAN , STATION 314-10 , 33-00.0. N, 125-00.0. E, FEB.15.1982, 17:45 KST, DEPTH 75 , COLOR 5, TRANS. 8.0,
 WAVE NW 3, SWELL NW 2, WIND NW 4, BARO 1022. , AIR TEMP. DRY 6.5, WET , CLOUD. TYPE CI, AMT 03, WEATHER BC,
 0 13.37 34.420 ***** 0 13.37 34.420 ***** 25.88 212 212 0.0000
 10 13.24 34.430 ***** 10 13.24 34.430 ***** 25.92 209 209 0.0210
 20 13.25 34.420 ***** 20 13.25 34.420 ***** 25.91 210 210 0.0420
 30 13.25 34.400 ***** 30 13.25 34.400 ***** 25.89 211 212 0.0631
 53 13.23 34.420 ***** 50 13.23 34.417 ***** 25.91 210 211 0.1054
 69 13.20 34.410 *****

4 月(April)

KOREA ,TAE BAEK SAN , STATION 314-00 , 33-00.0. N, 128-00.0. E, APR.10.1982, 20:55 KST, DEPTH 140 , COLOR , TRANS. ,
 WAVE NW 1, SWELL NW 1, WIND NW 2, BARO 1021. , AIR TEMP. DRY 12.0, WET , CLOUD. TYPE CI, AMT 01, WEATHER B ,
 0 15.81 34.650 ***** 0 15.81 34.650 ***** 25.54 245 245 0.0000
 10 15.79 34.650 ***** 10 15.79 34.630 ***** 25.52 246 246 0.0245
 20 15.79 34.620 ***** 20 15.79 34.620 ***** 25.52 247 247 0.0493
 30 15.72 34.630 ***** 30 15.72 34.630 ***** 25.54 245 245 0.0739
 50 15.74 34.650 ***** 50 15.74 34.650 ***** 25.55 244 245 0.1230
 75 15.65 ***** 75 15.65 34.640 ***** 25.56 242 244 0.1842
 100 15.63 34.630 ***** 100 15.63 34.630 ***** 25.56 243 245 0.2455
 125 15.56 34.620 ***** 125 15.56 34.620 ***** 25.57 242 245 0.3070
 150 14.33 34.620 ***** 150 14.33 34.620 ***** 25.84 216 220 0.3652

KOREA ,TAE BAEK SAN , STATION 314-01 , 33-00.0. N, 127-42.0. E, APR.10.1982, 22:55 KST, DEPTH 140 , COLOR , TRANS. ,
 WAVE NW 1, SWELL NW 1, WIND NW 1, BARO 1021.5, AIR TEMP. DRY 11.7, WET , CLOUD. TYPE CI, AMT 01, WEATHER B ,
 0 16.44 34.640 ***** 0 16.44 34.640 ***** 25.38 260 259 0.0000

OBSERVED										INTERPOLATED				CALCULATED		
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	D-DY

10	16.40	34.650	*****							10	16.40	34.650	*****	25.40	258	0.0259
20	16.40	34.660	*****							20	16.40	34.660	*****	25.41	257	0.0517
30	16.44	34.650	*****							30	16.44	34.650	*****	25.39	259	0.0776
50	16.43	34.660	*****							50	16.43	34.660	*****	25.40	258	0.1295
75	16.41	34.640	*****							75	16.41	34.640	*****	25.39	259	0.1946
100	16.38	34.630	*****							100	16.38	34.630	*****	25.39	259	0.2600
125	16.39	34.640	*****							125	16.39	34.640	*****	25.39	258	0.3256
135	16.29	34.630	*****													

KOREA ,TAE BAEK SAN , STATION 314-02 , 33-00.0. N, 127-24.0. E, APR.11.1982, 00:43 KST, DEPTH 125 , COLOR , TRANS.

WAVE NW 1, SWELL NW 1, WIND NW 1, BARO 1021.5, AIR TEMP. DRY 11.2, WET , CLOUD. TYPE CI, AMT 01, WEATHER B ,

0	16.00	34.600	*****							0	16.00	34.600	*****	25.45	253	0.0000
10	15.92	34.630	*****							10	15.92	34.630	*****	25.50	249	0.0251
20	15.97	34.620	*****							20	15.97	34.620	*****	25.48	251	0.0501
30	15.90	34.630	*****							30	15.90	34.630	*****	25.50	248	0.0752
50	15.88	34.650	*****							50	15.88	34.650	*****	25.52	247	0.1249
75	15.90	34.620	*****							75	15.90	34.620	*****	25.49	249	0.1874
100	15.86	34.610	*****							100	15.86	34.610	*****	25.49	249	0.2504
120	15.65	34.610	*****													

KOREA ,TAE BAEK SAN , STATION 314-03 , 33-00.0. N, 127-06.0. E, APR.11.1982, 02:30 KST, DEPTH 110 , COLOR , TRANS.

WAVE NW 1, SWELL NW 1, WIND NW 1, BARO 1022. , AIR TEMP. DRY 12.0, WET , CLOUD. TYPE CI, AMT 01, WEATHER B ,

0	16.13	34.640	*****							0	16.13	34.640	*****	25.45	253	0.0000
10	16.14	34.640	*****							10	16.14	34.640	*****	25.45	253	0.0253
20	16.18	34.640	*****							20	16.18	34.640	*****	25.44	254	0.0507
30	16.15	34.630	*****							30	16.15	34.630	*****	25.44	254	0.0761

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
50	16.09	34.630	*****							50	16.09	34.630	*****	25.46	253	254	0.1271
75	15.95	34.610	*****							75	15.95	34.610	*****	25.47	251	253	0.1905
100	15.73	34.630	*****							100	15.73	34.630	*****	25.54	245	247	0.2532
KOREA ,TAE BAEK SAN , STATION 314-04 , 33-00.0. N, 126-48.0. E, APR.11.1982, 04:40 KST, DEPTH 100 , COLOR , TRANS. ,																	
WAVE NW 1, SWELL NW 1, WIND NW 1, BARO 1021. , AIR TEMP. DRY 11.6, WET , CLOUD. TYPE CI, AMT 01, WEATHER B ,																	
0	16.08	34.630	*****							0	16.08	34.630	*****	25.46	252	252	0.0000
10	16.12	34.620	*****							10	16.12	34.620	*****	25.44	254	254	0.0253
20	16.07	34.630	*****							20	16.07	34.630	*****	25.46	252	252	0.0507
30	16.07	34.640	*****							30	16.07	34.640	*****	25.47	251	252	0.0759
50	16.08	34.680	*****							50	16.08	34.680	*****	25.50	249	250	0.1262
75	14.73	34.700	*****							75	14.73	34.700	*****	25.81	219	220	0.1851
95	14.28	34.700	*****														
KOREA ,TAE BAEK SAN , STATION 314-05 , 33-00.0. N, 126-50.0. E, APR.11.1982, 06:35 KST, DEPTH 100 , COLOR 6, TRANS. 10.0,																	
WAVE NW 1, SWELL NW 1, WIND NW 1, BARO 1021. , AIR TEMP. DRY 12.4, WET , CLOUD. TYPE CI, AMT 01, WEATHER B ,																	
0	14.96	34.600	*****							0	14.96	34.600	*****	25.69	231	230	0.0000
10	14.95	34.540	*****							10	14.95	34.540	*****	25.64	235	235	0.0233
20	15.00	34.540	*****							20	15.00	34.540	*****	25.63	236	236	0.0469
30	14.98	34.540	*****							30	14.98	34.540	*****	25.64	236	236	0.0705
50	14.94	34.530	*****							50	14.94	34.530	*****	25.64	235	237	0.1179
75	14.77	34.500	*****							75	14.77	34.500	*****	25.65	234	236	0.1771
95	14.72	34.510	*****														
KOREA ,TAE BAEK SAN , STATION 314-06 , 33-00.0. N, 126-12.0. E, APR.12.1982, 14:00 KST, DEPTH 110 , COLOR 6, TRANS. 8.0,																	
WAVE NE 1, SWELL NE 1, WIND NE 1, BARO 1015. , AIR TEMP. DRY 20.2, WET , CLOUD. TYPE , AMT , WEATHER B ,																	
0	15.51	34.670	*****							0	15.51	34.670	*****	25.62	237	237	0.0000

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

10	14.90	34.660	*****							10	14.90	34.660	*****	25.75	225	225	0.0231
20	14.53	34.590	*****							20	14.53	34.590	*****	25.77	223	223	0.0455
30	14.53	34.580	*****							30	14.53	34.580	*****	25.76	223	224	0.0679
50	14.47	34.560	*****							50	14.47	34.560	*****	25.76	224	225	0.1129
75	14.45	34.480	*****							75	14.45	34.480	*****	25.70	229	231	0.1699
100	14.43	34.450	*****							100	14.43	34.450	*****	25.69	231	233	0.2281

KOREA ,TAE BAEK SAN , STATION 314-07 , 33-00.0. N, 125-54.0. E, APR.12.1982, 15:55 KST, DEPTH 90 , COLOR 6, TRANS. 7.5,
WAVE NE 1, SWELL NE 1, WIND SE 1, BARO 1015. , AIR TEMP. DRY 17.3, WET , CLOUD. TYPE CS, AMT 06, WEATHER BC,

0	15.93	34.500	*****							0	15.93	34.500	*****	25.39	259	258	0.0000
10	15.60	34.550	*****							10	15.60	34.550	*****	25.51	248	248	0.0253
20	14.50	34.570	*****							20	14.50	34.570	*****	25.76	223	224	0.0489
30	14.49	34.570	*****							30	14.49	34.570	*****	25.76	223	224	0.0714
50	14.48	34.460	*****							50	14.48	34.460	*****	25.68	231	232	0.1171
75	14.49	34.460	*****							75	14.49	34.460	*****	25.68	231	233	0.1753
85	14.47	34.470	*****														

KOREA ,TAE BAEK SAN , STATION 314-08 , 33-00.0. N, 125-56.0. E, APR.12.1982, 17:53 KST, DEPTH 90 , COLOR 6, TRANS. 7.0,
WAVE NE 1, SWELL NE 1, WIND SE 1, BARO 1015. , AIR TEMP. DRY 14.2, WET , CLOUD. TYPE CS, AMT 09, WEATHER C ,

0	15.31	34.420	*****							0	15.31	34.420	*****	25.47	251	251	0.0000
10	14.12	34.400	*****							10	14.12	34.400	*****	25.71	228	228	0.0240
20	13.91	34.390	*****							20	13.91	34.390	*****	25.75	225	225	0.0467
30	13.90	34.410	*****							30	13.90	34.410	*****	25.77	223	224	0.0691
50	13.90	34.410	*****							50	13.90	34.410	*****	25.77	223	224	0.1140
75	13.84	34.400	*****							75	13.84	34.400	*****	25.77	223	224	0.1702
85	13.55	34.400	*****														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY

KOREA , TAE BAEK SAN , STATION 314-09 , 33-00.0. N, 125-18.0. E, APR.12.1982, 19:40 KST, DEPTH 80 , COLOR , TRANS. ,
 WAVE SW 1, SWELL SW 1, WIND SW 1, BARO 1013. , AIR TEMP. DRY 14.4, WET , CLOUD. TYPE AS, AMT 07, WEATHER BC,
 0 14.63 34.520 ***** 0 14.63 34.520 ***** 25.70 230 229 0.0000
 10 13.88 34.440 ***** 10 13.88 34.440 ***** 25.79 221 220 0.0225
 20 13.50 34.440 ***** 20 13.50 34.440 ***** 25.87 213 213 0.0442
 30 13.48 34.430 ***** 30 13.48 34.430 ***** 25.87 213 214 0.0656
 50 13.46 34.440 ***** 50 13.46 34.440 ***** 25.88 212 213 0.1085
 75 13.41 34.430 ***** 75 13.41 34.430 ***** 25.88 212 214 0.1620

KOREA , TAE BAEK SAN , STATION 314-10 , 33-00.0. N, 125-00.0. E, APR.12.1982, 21:30 KST, DEPTH 75 , COLOR , TRANS. ,
 WAVE SW 1, SWELL SW 1, WIND SW 1, BARO 1015. , AIR TEMP. DRY 13.4, WET , CLOUD. TYPE AS, AMT 07, WEATHER BC,
 0 13.99 34.340 ***** 0 13.99 34.340 ***** 25.69 230 230 0.0000
 10 12.92 34.330 ***** 10 12.92 34.330 ***** 25.90 210 210 0.0220
 20 12.87 34.340 ***** 20 12.87 34.340 ***** 25.92 208 209 0.0430
 30 12.85 34.330 ***** 30 12.85 34.330 ***** 25.92 209 209 0.0639
 50 12.79 34.320 ***** 50 12.79 34.320 ***** 25.92 208 209 0.1058
 70 12.84 34.320 *****

6月(June)

KOREA , TAE BAEK SAN , STATION 314-00 , 33-00.0. N, 128-00.0. E, JUN.11.1982, 22:40 KST, DEPTH 160 , COLOR , TRANS. ,
 WAVE SW 1, SWELL SW 1, WIND SW 1, BARO 1008.7, AIR TEMP. DRY 22.1, WET , CLOUD. TYPE CS, AMT 02, WEATHER B ,
 0 22.10 33.070 ***** 0 22.10 33.070 ***** 22.74 511 511 0.0000
 10 21.69 33.030 ***** 10 21.69 33.030 ***** 22.83 503 503 0.0507
 20 20.58 33.100 ***** 20 20.58 33.100 ***** 23.18 470 470 0.0994
 30 18.11 34.740 ***** 30 18.11 34.740 ***** 25.04 290 291 0.1375

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

50	17.56	34.060	*****							50	17.56	34.060	*****	24.67	327	308	0.1985
75	17.00	34.220	*****							75	17.00	34.220	*****	24.93	303	305	0.2788
100	16.11	34.200	*****							100	16.11	34.200	*****	25.12	284	287	0.3528
125	15.92	34.180	*****							125	15.92	34.180	*****	25.15	282	285	0.4244
150	15.77	*****	*****							150	15.77	*****	*****	*****	***	***	*****

KOREA , TAE BAEK SAN , STATION 314-01 , 33-00.0. N, 127-42.0. E, JUN.11.1982, 20:40 KST, DEPTH 130 , COLOR , TRANS. ,
 WAVE SW 1, SWELL SW 1, WIND SW 1, BARO 1008.5, AIR TEMP. DRY 22.6, WET , CLOUD. TYPE CS, AMT O2, WEATHER B ,

0	23.00	33.630	*****							0	23.00	33.630	*****	22.91	495	495	0.0000
10	21.10	33.680	*****							10	21.10	33.680	*****	23.48	441	441	0.0468
20	18.58	33.740	*****							20	18.58	33.740	*****	24.18	374	374	0.0876
30	16.90	33.890	*****							30	16.90	33.890	*****	24.70	324	325	0.1226
50	15.63	34.020	*****							50	15.63	34.020	*****	25.09	287	288	0.1841
75	14.47	34.080	*****							75	14.47	34.080	*****	25.39	259	260	0.2528
100	14.58	34.080	*****							100	14.58	34.080	*****	25.37	261	263	0.3184
125	14.38	34.320	*****							125	14.38	34.320	*****	25.60	239	242	0.3817

KOREA , TAE BAEK SAN , STATION 314-02 , 33-00.0. N, 127-24.0. E, JUN.11.1982, 18:40 KST, DEPTH 125 , COLOR 7, TRANS. 15.0,
 WAVE SW 1, SWELL SW 1, WIND SW 1, BARO 1008.2, AIR TEMP. DRY 24.1, WET , CLOUD. TYPE CS, AMT O2, WEATHER B ,

0	22.34	34.180	*****							0	22.34	34.180	*****	23.52	437	437	0.0000
10	21.70	34.180	*****							10	21.70	34.180	*****	23.69	470	420	0.0429
20	18.32	34.190	*****							20	18.32	34.190	*****	24.59	335	336	0.0807
30	17.86	34.230	*****							30	17.86	34.230	*****	24.73	322	322	0.1137
50	17.36	34.350	*****							50	17.36	34.350	*****	24.94	301	303	0.1762
75	16.66	34.430	*****							75	16.66	34.430	*****	25.17	280	282	0.2494
100	14.91	34.410	*****							100	14.91	34.410	*****	25.55	244	246	0.3155

OBSERVED										INTERPOLATED					CALCULATED		
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY
KOREA ,TAE BAEK SAN , STATION 314-03 , 33-00.0. N, 127-06.0. E, JUN.11.1982, 16:50 KST, DEPTH 110 , COLOR 2, TRANS. 16.0, WAVE W 1, SWELL W 1, WIND W 1, BARO 1008.5, AIR TEMP. DRY 24.3, WET , CLOUD. TYPE CS, AMT 02, WEATHER B ,																	
0	22.98	34.200	*****							0	22.98	34.200	*****	23.35	453	453	0.0000
10	21.13	34.160	*****							10	21.13	34.160	*****	23.84	407	407	0.0430
20	18.28	34.170	*****							20	18.28	34.170	*****	24.58	336	336	0.0802
30	18.05	34.340	*****							30	18.05	34.340	*****	24.77	318	319	0.1130
50	16.61	34.480	*****							50	16.61	34.480	*****	25.22	275	276	0.1726
75	16.63	34.470	*****							75	16.63	34.470	*****	25.21	276	278	0.2420
105	16.12	34.440	*****							100	16.20	34.445	*****	25.29	269	271	0.3107
KOREA ,TAE BAEK SAN , STATION 314-04 , 33-00.0. N, 126-08.0. E, JUN.11.1982, 14:50 KST, DEPTH 100 , COLOR 3, TRANS. 16.0, WAVE SW 1, SWELL SW 1, WIND SW 1, BARO 1009. , AIR TEMP. DRY 24.1, WET , CLOUD. TYPE CS, AMT 02, WEATHER B ,																	
0	22.61	34.190	*****							0	22.61	34.190	*****	23.45	444	444	0.0000
10	22.04	34.170	*****							10	22.04	34.170	*****	23.59	430	430	0.0437
20	21.37	34.160	*****							20	21.37	34.160	*****	23.77	413	414	0.0859
30	19.53	34.200	*****							30	19.53	34.200	*****	24.29	364	364	0.1249
50	17.83	34.220	*****							50	17.83	34.220	*****	24.73	322	323	0.1937
75	16.36	34.240	*****							75	16.36	34.240	*****	25.10	287	289	0.2703
95	15.99	34.250	*****														
KOREA ,TAE BAEK SAN , STATION 314-05 , 33-00.0. N, 126-30.0. E, JUN.11.1982, 12:55 KST, DEPTH 100 , COLOR 3, TRANS. 16.0, WAVE , SWELL , WIND SW 1, BARO 1008.7, AIR TEMP. DRY 26.0, WET , CLOUD. TYPE CS, AMT 01, WEATHER B ,																	
0	22.22	33.510	*****							0	22.22	33.510	*****	23.04	483	482	0.0000
10	20.97	33.830	*****							10	20.97	33.830	*****	23.63	427	427	0.0455
20	17.68	33.950	*****							20	17.68	33.950	*****	24.56	338	338	0.0837
30	13.79	*****	*****							30	13.79	33.990	*****	25.47	252	252	0.1133

OBSERVED							INTERPOLATED							CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY

50 13.04 34.070 *****
 75 13.23 34.070 *****
 95 13.40 34.100 *****

KOREA ,TAE BAEK SAN , STATION 314-06 , 33-00.0. N, 126-12.0. E, JUN.11.1982, 10:50 KST, DEPTH 110 , COLOR 3, TRANS. 16.0,
 WAVE , SWELL , WIND W 1, BARO 1008.7, AIR TEMP. DRY 23.7, WET , CLOUD. TYPE CS, AMT 02, WEATHER B ,

0 21.61 33.620 ***** 0 21.61 33.620 ***** 23.29 459 458 0.0000
 10 20.43 33.670 ***** 10 20.43 33.670 ***** 23.65 425 425 0.0441
 20 16.40 34.180 ***** 20 16.40 34.180 ***** 25.04 292 292 0.0800
 30 15.67 34.190 ***** 30 15.67 34.190 ***** 25.21 276 276 0.1085
 50 14.11 34.230 ***** 50 14.11 34.230 ***** 25.58 240 242 0.1604
 75 13.37 34.250 ***** 75 13.37 34.250 ***** 25.75 224 226 0.2190
 105 13.34 34.280 ***** 100 13.34 34.275 ***** 25.78 222 224 0.2754

KOREA ,TAE BAEK SAN , STATION 314-07 , 33-00.0. N, 125-54.0. E, JUN.11.1982, 08:40 KST, DEPTH 90 , COLOR 3, TRANS. 18.0,
 WAVE , SWELL , WIND NW 1, BARO 1009.5, AIR TEMP. DRY 24.0, WET , CLOUD. TYPE CI, AMT 02, WEATHER B ,

0 21.14 34.210 ***** 0 21.14 34.210 ***** 23.87 404 403 0.0000
 10 20.39 ***** 10 20.39 34.220 ***** 24.08 384 384 0.0394
 20 19.57 ***** 20 19.57 34.230 ***** 24.30 362 363 0.0767
 30 15.67 34.240 ***** 30 15.67 34.240 ***** 25.25 272 273 0.1085
 50 14.04 34.320 ***** 50 14.04 34.320 ***** 25.67 232 234 0.1593
 75 13.88 34.330 ***** 75 13.88 34.330 ***** 25.71 229 230 0.2173
 85 13.83 34.300 *****

KOREA ,TAE BAEK SAN , STATION 314-08 , 33-00.0. N, 125-36.0. E, JUN.11.1982, 06:50 KST, DEPTH 90 , COLOR 3, TRANS. 14.0,
 WAVE , SWELL , WIND , BARO 1008.9, AIR TEMP. DRY 20.9, WET , CLOUD. TYPE CI, AMT 03, WEATHER BC,

0 20.52 33.090 ***** 0 20.52 33.090 ***** 23.19 469 469 0.0000

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
10	19.21	33.620	*****							10	19.21	33.620	*****	23.93	398	398	0.0433
20	16.85	33.690	*****							20	16.85	33.690	*****	24.56	338	338	0.0802
30	12.92	33.830	*****							30	12.92	33.830	*****	25.52	247	247	0.1095
50	12.02	33.820	*****							50	12.02	33.820	*****	25.68	231	232	0.1575
75	11.90	33.830	*****							75	11.90	33.830	*****	25.71	228	229	0.2153
87	11.94	33.820	*****														
KOREA ,TAE BAEK SAN , STATION 314-09 , 33-00.0. N, 125-18.0. E, JUN.11.1982, 04:50 KST, DEPTH 80 , COLOR , TRANS. ,																	
WAVE , SWELL , WIND , BARO 1009.4, AIR TEMP. DRY 20.8, WET , CLOUD. TYPE CU, AMT 08, WEATHER C ,																	
0	21.80	33.150	*****							0	21.80	33.150	*****	22.89	498	497	0.0000
10	19.62	33.450	*****							10	19.62	33.450	*****	23.70	420	420	0.0459
20	15.88	33.720	*****							20	15.88	33.720	*****	24.81	314	315	0.0827
30	12.31	33.850	*****							30	12.31	33.850	*****	25.65	234	234	0.1102
50	12.19	33.910	*****							50	12.19	33.910	*****	25.72	227	228	0.1565
75	12.26	33.920	*****							75	12.26	33.920	*****	25.72	228	229	0.2139
KOREA ,TAE BAEK SAN , STATION 314-10 , 33-00.0. N, 125-00.0. E, JUN.11.1982, 02:13 KST, DEPTH 75 , COLOR , TRANS. ,																	
WAVE , SWELL , WIND , BARO 1009. , AIR TEMP. DRY 21.2, WET , CLOUD. TYPE CU, AMT 07, WEATHER BC,																	
0	21.77	*****	*****							0	21.77	*****	*****	*****	***	***	*****
10	20.43	33.650	*****							10	20.43	33.650	*****	23.64	426	426	*****
20	19.93	33.710	*****							20	19.93	33.710	*****	23.81	409	409	*****
30	14.53	33.830	*****							30	14.53	33.830	*****	25.19	278	279	*****
50	13.74	*****	*****							50	13.74	33.865	*****	25.38	260	261	*****
70	12.27	33.900	*****														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

8月(August)

KOREA ,TAE BAEK SAN , STATION 314-00 , 33-00.0. N, 128-00.0. E, AUG. 9.1982, 21:30 KST, DEPTH 160 , COLOR , TRANS.

WAVE SSE 2, SWELL SSE 2, WIND SSE 2, BARO 1007.1, AIR TEMP. DRY 28.2, WET , CLOUD. TYPE , AMT , WEATHER B ,

0	28.78	31.690	*****							0	28.78	31.690	*****	19.67	806	805	0.0000
10	27.74	31.960	*****							10	27.74	31.960	*****	20.21	754	754	0.0780
20	27.55	*****	*****							20	27.55	32.615	*****	20.77	701	701	0.1507
30	25.82	33.270	*****							30	25.82	33.270	*****	21.80	601	602	0.2159
50	23.70	33.810	*****							50	23.70	33.810	*****	22.85	501	503	0.3265
75	19.36	34.160	*****							75	19.36	34.160	*****	24.30	362	364	0.4350
100	18.43	34.400	*****							100	18.43	34.400	*****	24.72	323	325	0.5214
125	18.18	34.520	*****							125	18.18	34.520	*****	24.87	308	311	0.6011
150	17.16	34.570	*****							150	17.16	34.570	*****	25.16	281	285	0.6758

KOREA ,TAE BAEK SAN , STATION 314-01 , 33-00.0. N, 127-42.0. E, AUG. 9.1982, 23:20 KST, DEPTH 128 , COLOR , TRANS.

WAVE SE 2, SWELL SE 2, WIND SE 2, BARO 1007. , AIR TEMP. DRY 27.8, WET , CLOUD. TYPE CC, AMT 02, WEATHER B ,

0	28.53	31.620	*****							0	28.53	31.620	*****	19.70	803	803	0.0000
10	28.42	31.600	*****							10	28.42	31.600	*****	19.72	801	801	0.0802
20	24.76	32.210	*****							20	24.76	32.210	*****	21.33	647	647	0.1526
30	24.37	33.230	*****							30	24.37	33.230	*****	22.21	562	563	0.2132
50	20.77	33.820	*****							50	20.77	33.820	*****	23.67	422	424	0.3119
75	18.73	34.010	*****							75	18.73	34.010	*****	24.35	358	360	0.4100
100	16.65	34.390	*****							100	16.65	34.390	*****	25.14	282	285	0.4907
125	16.53	34.500	*****							125	16.53	34.500	*****	25.26	272	275	0.5609

KOREA ,TAE BAEK SAN , STATION 314-02 , 33-00.0. N, 127-24.0. E, AUG.10.1982, 01:10 KST, DEPTH 125 , COLOR , TRANS.

WAVE SSE 2, SWELL SSE 2, WIND SSE 2, BARO 1007.2, AIR TEMP. DRY 27.9, WET , CLOUD. TYPE CU, AMT 02, WEATHER B ,

0	28.74	31.710	*****							0	28.74	31.710	*****	19.70	803	803	0.0000
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OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
10	28.67	31.750	*****							10	28.67	31.750	*****	19.75	798	798	0.0800
20	27.59	31.980	*****							20	27.59	31.980	*****	20.28	748	748	0.1574
30	25.08	33.590	*****							30	25.08	33.590	*****	22.27	957	957	0.2227
50	23.68	33.670	*****							50	23.68	33.670	*****	22.75	511	512	0.3297
75	19.45	34.100	*****							75	19.45	34.100	*****	24.23	369	371	0.4403
100	17.62	34.210	*****							100	17.62	34.210	*****	24.77	317	320	0.5268
120	17.33	34.250	*****														
KOREA ,TAE BAEK SAN , STATION 314-03 , 33-00.0. N, 127-06.0. E, AUG.10.1982, 03:00 KST, DEPTH 100 , COLOR , TRANS.																	
WAVE E 2, SWELL E 2, WIND E 2, BARO 1003.5, AIR TEMP. DRY 27.8, WET , CLOUD. TYPE CU, AMT 04, WEATHER BC,																	
0	28.55	31.600	*****							0	28.55	31.600	*****	19.68	805	805	0.0000
10	27.93	31.840	*****							10	27.93	31.840	*****	20.06	768	768	0.0786
20	27.16	32.000	*****							20	27.16	32.000	*****	20.43	733	733	0.1538
30	24.31	33.720	*****							30	24.31	33.720	*****	22.60	525	526	0.2168
50	22.94	34.080	*****							50	22.94	34.080	*****	23.27	461	462	0.3157
75	19.09	34.150	*****							75	19.09	34.150	*****	24.36	357	359	0.4184
95	16.16	34.450	*****														
KOREA ,TAE BAEK SAN , STATION 314-04 , 33-00.0. N, 126-48.0. E, AUG.10.1982, 04:50 KST, DEPTH 100 , COLOR , TRANS.																	
WAVE E 2, SWELL E 2, WIND E 3, BARO 1004.3, AIR TEMP. DRY 27.5, WET , CLOUD. TYPE CU, AMT 03, WEATHER BC,																	
0	28.25	31.100	*****							0	28.25	31.100	*****	19.41	831	831	0.0000
10	25.00	32.000	*****							10	25.00	32.000	*****	21.10	669	669	0.0750
20	22.21	32.370	*****							20	22.21	32.370	*****	22.18	565	565	0.1368
30	20.75	33.740	*****							30	20.75	33.740	*****	23.62	428	428	0.1865
50	15.83	33.820	*****							50	15.83	33.820	*****	24.89	306	307	0.2601
75	14.59	34.160	*****							75	14.59	34.160	*****	25.43	255	257	0.3308
95	14.45	34.300	*****														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY

KOREA ,TAE BAEK SAN , STATION 314-05 , 33-00.0. N, 126-30.0. E, AUG.10.1982, 06:40 KST, DEPTH 100 , COLOR , TRANS.
 WAVE E 3, SWELL E 2, WIND E 3, BARD 1003.8, AIR TEMP. DRY 25.0, WET , CLOUD. TYPE CU, AMT 03, WEATHER BC,
 0 28.16 31.220 ***** 0 28.16 31.220 ***** 19.52 820 820 0.0000
 10 28.11 31.349 ***** 10 28.11 31.340 ***** 19.63 810 810 0.0815
 20 23.85 32.310 ***** 20 23.85 32.310 ***** 21.67 614 614 0.1527
 30 15.65 33.510 ***** 30 15.65 33.510 ***** 24.70 325 325 0.1998
 50 14.00 33.810 ***** 50 14.00 33.810 ***** 25.28 269 270 0.2594
 75 13.58 33.950 ***** 75 13.58 33.950 ***** 25.48 251 252 0.3248
 95 13.50 33.950 *****

KOREA ,TAE BAEK SAN , STATION 314-06 , 33-00.0. N, 126-12.0. E, AUG.10.1982, 09:00 KST, DEPTH 100 , COLOR , TRANS. ,
 WAVE SE 2, SWELL SE 3, BARD 1006.2, AIR TEMP. DRY 27.6, WET , CLOUD. TYPE AS, AMT 05, WEATHER BC,
 0 28.02 31.430 ***** 0 28.02 31.430 ***** 19.73 801 800 0.0000
 10 27.61 31.490 ***** 10 27.61 31.490 ***** 19.90 783 783 0.0792
 20 22.01 32.350 ***** 20 22.01 32.350 ***** 22.22 561 561 0.1465
 30 16.97 33.260 ***** 30 16.97 33.260 ***** 24.20 372 372 0.1932
 50 14.65 33.850 ***** 50 14.65 33.850 ***** 25.18 279 280 0.2586
 75 13.97 33.910 ***** 75 13.97 33.910 ***** 25.37 261 263 0.3266
 95 13.47 34.000 *****

KOREA ,TAE BAEK SAN , STATION 314-07 , 33-00.0. N, 125-54.0. E, AUG.16.1982, 09:10 KST, DEPTH 90 , COLOR 4, TRANS. 9.0,
 WAVE SW 2, SWELL SW 3, BARD 1009. , AIR TEMP. DRY 25.4, WET , CLOUD. TYPE AS, AMT 08, WEATHER C ,
 0 25.80 31.330 ***** 0 25.80 31.330 ***** 20.35 741 740 0.0000
 10 25.49 31.320 ***** 10 25.49 31.320 ***** 20.44 732 732 0.0736
 20 24.44 31.390 ***** 20 24.44 31.390 ***** 20.80 697 697 0.1451
 30 24.15 31.920 ***** 30 24.15 31.920 ***** 21.29 651 651 0.2126

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
50	12.81	33.500	*****							50	12.81	33.500	*****	25.28	269	270	0.3048
75	12.29	33.700	*****							75	12.29	33.700	*****	25.54	245	246	0.3694
85	12.38	33.740	*****														
KOREA ,TAE BAEK SAN , STATION 314-08 , 33-00.0. N, 125-36.0. E, AUG.13.1982, 11:00 KST, DEPTH 90 , COLOR 4, TRANS. 11.0,																	
WAVE SW 2, SWELL SW 2, WIND SW 3, BARO 1009. , AIR TEMP. DRY 25.6, WET , CLOUD. TYPE AS, AMT 07, WEATHER BC,																	
0	25.09	31.100	*****							0	25.09	31.100	*****	20.39	736	736	0.0000
10	24.87	31.140	*****							10	24.87	31.140	*****	20.49	727	727	0.0732
20	24.62	31.140	*****							20	24.62	31.140	*****	20.56	720	720	0.1458
30	24.20	31.760	*****							30	24.20	31.760	*****	21.15	663	664	0.2149
50	12.71	33.730	*****							50	12.71	33.780	*****	25.52	246	247	0.3061
75	12.72	33.850	*****							75	12.72	33.850	*****	25.57	242	243	0.3676
85	12.75	33.850	*****														
KOREA ,TAE BAEK SAN , STATION 314-09 , 33-00.0. N, 125-18.0. E, AUG.16.1982, 12:50 KST, DEPTH 82 , COLOR 3, TRANS. 13.0,																	
WAVE S 2, SWELL S 2, WIND S 3, BARO 1008.6, AIR TEMP. DRY 26.3, WET , CLOUD. TYPE AS, AMT 06, WEATHER BC,																	
0	24.93	*****	*****							0	24.93	*****	*****	*****	***	***	*****
10	24.48	31.180	*****							10	24.48	31.180	*****	20.63	713	713	*****
20	24.38	31.250	*****							20	24.38	31.250	*****	20.72	705	706	*****
30	21.03	31.940	*****							30	21.03	31.940	*****	22.18	565	566	*****
50	12.45	33.640	*****							50	12.45	33.640	*****	25.46	252	253	*****
75	12.48	33.760	*****							75	12.48	33.760	*****	25.55	244	245	*****
85																	
KOREA ,TAE BAEK SAN , STATION 314-10 , 33-00.0. N, 125-00.0. E, AUG.16.1982, 14:40 KST, DEPTH 75 , COLOR 4, TRANS. 10.0,																	
WAVE S 2, SWELL S 2, WIND S 3, BARO 1008. , AIR TEMP. DRY 25.4, WET , CLOUD. TYPE , AMT , WEATHER F ,																	
0	24.51	31.190	*****							0	24.51	31.190	*****	20.63	713	713	0.0000
10	23.53	31.220	*****							10	23.53	31.220	*****	20.94	684	684	0.0698

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

20	23.47	31.240	*****							20	23.47	31.240	*****	20.97	681	681	0.1381
30	19.64	32.120	*****							30	19.64	32.120	*****	22.68	517	518	0.1981
50	13.80	33.200	*****							50	13.80	33.200	*****	24.85	310	311	0.2811
70	12.04	33.510	*****														

10月(October)

KOREA , TAE BAEK SAN , STATION 314-00 , 33-00.0. N, 128-00.0. E, OCT. 8.1982, 19:45 KST, DEPTH 160 , COLOR , TRANS. ,
 WAVE NE 3, SWELL NE 3, WIND NE 4, BARO 1009.2, AIR TEMP. DRY 23.3, WET , CLOUD. TYPE CU, AMT 05, WEATHER BC,

0	25.30	33.760	4.86							0	25.30	33.760	4.86	22.33	551	550	0.0000
10	25.09	33.730	4.70							10	25.09	33.730	4.70	22.37	547	547	0.0549
20	25.08	33.730	4.66							20	25.08	33.730	4.66	22.38	546	547	0.1096
30	25.05	34.210	4.50							30	25.05	34.210	4.50	22.75	511	512	0.1626
50	25.13	34.230	4.42							50	25.13	34.230	4.42	22.74	512	513	0.2651
75	25.11	34.250	4.30							75	25.11	34.250	4.30	22.76	510	512	0.3934
100	17.91	34.290	4.13							100	17.91	34.290	4.13	24.77	318	321	0.4977
125	16.73	34.370	3.97							125	16.73	34.370	3.97	25.11	286	289	0.5741

KOREA , TAE BAEK SAN , STATION 314-01 , 33-00.0. N, 127-42.0. E, OCT. 8.1982, 21:30 KST, DEPTH 140 , COLOR , TRANS. ,
 WAVE NE 3, SWELL NE 3, WIND NE 4, BARO 1010.3, AIR TEMP. DRY 23.0, WET , CLOUD. TYPE CU, AMT 04, WEATHER BC,

0	24.80	33.550	4.80							0	24.80	33.550	4.80	22.32	551	551	0.0000
10	25.02	33.580	4.75							10	25.02	33.580	4.75	22.28	556	556	0.0553
20	25.07	33.610	4.70							20	25.07	33.610	4.70	22.29	555	555	0.1109
30	25.01	34.080	4.60							30	25.01	34.080	4.60	22.66	519	520	0.1647
50	25.03	34.110	4.45							50	25.03	34.110	4.45	22.68	518	519	0.2687
75	25.06	34.120	4.30							75	25.06	34.120	4.30	22.68	518	520	0.3987

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
100	25.01	34.120	4.05							100	25.01	34.120	4.05	22.69	516	519	0.5287
125	25.05	34.130	3.90							125	25.05	34.130	3.90	22.69	517	521	0.6588
KOREA ,TAE BAEK SAN , STATION 314-02 , 33-00.0. N, 127-24.0. E, OCT. 8.1982, 23:15 KST, DEPTH 125 , COLOR , TRANS.																	
WAVE NE 3, SWELL NE 4, BARO 1011.1, AIR TEMP. DRY 22.8, WET , CLOUD. TYPE CU, AMT 04, WEATHER BC,																	
0	25.50	33.630	5.08							0	25.50	33.630	5.08	22.17	566	566	0.0000
10	25.19	33.720	4.97							10	25.19	33.720	4.97	22.33	550	550	0.0558
20	25.36	33.760	4.86							20	25.36	33.760	4.86	22.31	552	553	0.1110
30	25.33	34.230	4.60							30	25.33	34.230	4.60	22.68	518	518	0.1646
50	25.00	34.210	4.55							50	25.00	34.210	4.55	22.76	510	511	0.2676
75	25.36	34.220	4.40							75	25.36	34.220	4.40	22.66	519	521	0.3968
100	25.31	34.220	4.10							100	25.31	34.220	4.10	22.67	518	521	0.5272
120	25.30	34.200	4.00														
KOREA ,TAE BAEK SAN , STATION 314-03 , 33-00.0. N, 127-06.0. E, OCT. 9.1982, 01:00 KST, DEPTH 110 , COLOR , TRANS.																	
WAVE NE 3, SWELL NE 3, WIND NE 4, BARO 1012.2, AIR TEMP. DRY 22.4, WET , CLOUD. TYPE CU, AMT 04, WEATHER BC,																	
0	24.17	33.300	5.02							0	24.17	33.300	5.02	22.32	551	551	0.0000
10	24.14	33.290	4.96							10	24.14	33.290	4.96	22.32	551	551	0.0551
20	24.12	33.300	4.70							20	24.12	33.300	4.70	22.34	550	550	0.1103
30	24.17	33.830	4.65							30	24.17	33.830	4.65	22.72	513	514	0.1635
50	24.16	33.830	4.40							50	24.16	33.830	4.40	22.73	513	514	0.2664
75	21.58	33.820	4.27							75	21.58	33.820	4.27	23.45	443	445	0.3865
100	18.78	34.100	4.06							100	18.78	34.100	4.06	24.40	353	355	0.4867
KOREA ,TAE BAEK SAN , STATION 314-04 , 33-00.0. N, 126-48.0. E, OCT. 9.1982, 02:45 KST, DEPTH 100 , COLOR , TRANS.																	
WAVE NE 4, SWELL NE 2, WIND NE 5, BARO 1012.6, AIR TEMP. DRY 22.2, WET , CLOUD. TYPE , AMT 00, WEATHER B ,																	
0	24.00	33.210	5.10							0	24.00	33.210	5.10	22.31	553	553	0.0000

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

10	24.04	33.260	4.70							10	24.04	33.260	4.70	22.33	551	551	0.0552
20	24.21	33.310	4.65							20	24.21	33.310	4.65	22.32	552	552	0.1104
30	24.52	33.270	4.60							30	24.52	33.270	4.60	22.20	564	564	0.1662
50	21.40	33.700	4.35							50	21.40	33.700	4.35	23.41	447	449	0.2676
75	19.14	33.810	4.25							75	19.14	33.810	4.25	24.09	382	384	0.3719
95	18.66	33.860	4.04														

KOREA , TAE BAEK SAN , STATION 314-05 , 33-00.0. N, 126-30.0. E, OCT. 9.1982, 04:30 KST, DEPTH 100 , COLOR , TRANS. ,
 WAVE NE 4, SWELL NE 2, WIND NE 5, BARO 1012.8, AIR TEMP. DRY 21.4, WET , CLOUD. TYPE , AMT 00, WEATHER B ,
 0 24.17 33.130 5.16 0 24.17 33.130 5.16 22.20 564 563 0.0000
 10 24.23 33.330 4.90 10 24.23 33.330 4.90 22.33 551 551 0.0557
 20 24.80 33.390 4.84 20 24.80 33.390 4.84 22.20 563 563 0.1115
 30 24.07 33.490 4.82 30 24.07 33.490 4.82 22.50 535 536 0.1665
 50 22.93 33.740 4.75 50 22.93 33.740 4.75 23.02 485 487 0.2688
 75 18.36 33.810 4.25 75 18.36 33.810 4.25 24.29 364 366 0.3754
 95 17.56 33.860 4.14

KOREA , TAE BAEK SAN , STATION 314-06 , 33-00.0. N, 126-12.0. E, OCT.11.1982, 14:50 KST, DEPTH 110 , COLOR 4, TRANS. 7.0,
 WAVE NE 1, SWELL NE 1, WIND NE 1, BARO 1017. , AIR TEMP. DRY 23.5, WET , CLOUD. TYPE AC, AMT 04, WEATHER BC,
 0 23.84 32.970 5.04 0 23.84 32.970 5.04 22.17 566 566 0.0000
 10 23.92 33.090 4.84 10 23.92 33.090 4.84 22.24 560 560 0.0563
 20 23.81 33.120 4.82 20 23.81 33.120 4.82 22.29 554 555 0.1120
 30 23.79 33.640 4.91 30 23.79 33.640 4.91 22.69 516 517 0.1656
 50 23.91 33.730 4.73 50 23.91 33.730 4.73 22.72 513 514 0.2689
 75 22.36 33.750 4.50 75 22.36 33.750 4.50 23.18 469 471 0.3922
 100 18.10 33.940 4.25 100 18.10 33.940 4.25 24.45 348 351 0.4951

OBSERVED										INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY	
KOREA , TAE BAEK SAN , STATION 314-07 , 33-00.0. N, 125-54.0. E, OCT.11.1982, 16:35 KST, DEPTH 90 , COLOR 5, TRANS. 12.0, WAVE NE 1, SWELL NE 1, WIND NE 2, BARO 1017.8, AIR TEMP. DRY 21.8, WET , CLOUD. TYPE CS, AMT 03, WEATHER BC,																		
0	23.38	32.610	4.98							0	23.38	32.610	4.98	22.03	579	579	0.0000	
10	22.99	33.030	4.98							10	22.99	33.030	4.98	22.46	538	538	0.0559	
20	24.04	33.210	4.88							20	24.04	33.210	4.88	22.29	554	555	0.1105	
30	24.26	33.570	4.82							30	24.26	33.570	4.82	22.50	534	535	0.1651	
50	22.89	33.620	4.73							50	22.89	33.620	4.73	22.94	493	494	0.2681	
75	16.94	33.630	4.36							75	16.94	33.630	4.36	24.49	344	346	0.3733	
85	16.77	33.700	4.11															
KOREA , TAE BAEK SAN , STATION 314-08 , 33-00.0. N, 125-36.0. E, OCT.11.1982, 18:20 KST, DEPTH 90 , COLOR , TRANS. , WAVE NE 1, SWELL NE 1, WIND NE 2, BARO 1018. , AIR TEMP. DRY 21.2, WET , CLOUD. TYPE CS, AMT 03, WEATHER BC,																		
0	23.37	32.200	5.15							0	23.37	32.200	5.15	21.73	609	608	0.0000	
10	23.35	32.630	5.03							10	23.35	32.630	5.03	22.06	577	577	0.0593	
20	23.22	32.700	4.97							20	23.22	32.700	4.97	22.15	568	569	0.1166	
30	23.57	32.870	4.88							30	23.57	32.870	4.88	22.17	566	566	0.1734	
50	21.85	33.290	4.68							50	21.85	33.290	4.68	22.98	489	490	0.2791	
75	13.43	33.410	4.50							75	13.43	33.410	4.50	25.09	287	289	0.3764	
85	13.25	33.480	4.07															
KOREA , TAE BAEK SAN , STATION 314-09 , 33-00.0. N, 125-18.0. E, OCT.11.1982, 20:05 KST, DEPTH 80 , COLOR , TRANS. , WAVE NE 1, SWELL NE 1, WIND NE 2, BARO 1019.1, AIR TEMP. DRY 20.8, WET , CLOUD. TYPE CS, AMT 03, WEATHER BC,																		
0	23.28	32.350	5.14							0	23.28	32.350	5.14	21.87	595	595	0.0000	
10	23.34	32.340	4.98							10	23.34	32.340	4.98	21.84	598	598	0.0596	
20	23.55	32.650	4.82							20	23.55	32.650	4.82	22.01	581	581	0.1186	
30	23.77	32.820	4.82							30	23.77	32.820	4.82	22.08	575	575	0.1765	

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
50	23.82	33.120	4.39							50	23.82	33.120	4.39	22.29	555	556	0.2898
75	16.23	33.300	4.36							75	16.23	33.300	4.36	24.40	353	354	0.4037
KOREA ,TAE BAEK SAN , STATION 314-10 , 33-00.0. N, 125-00.0. E, OCT.11.1982, 21:45 KST, DEPTH 75 , COLOR , TRANS.																	
WAVE NE 1, SWELL NE 1, WIND NE 2, BARO 1019.1, AIR TEMP. DRY 20.7, WET , CLOUD. TYPE CU, AMT 03, WEATHER BC,																	
0	22.73	32.100	5.04							0	22.73	32.100	5.04	21.83	598	598	0.0000
10	22.85	32.110	4.95							10	22.85	32.110	4.95	21.81	601	601	0.0599
20	23.47	32.420	4.93							20	23.47	32.420	4.93	21.86	595	596	0.1198
30	23.94	33.030	4.71							30	23.94	33.030	4.71	22.19	564	565	0.1779
50	23.49	33.070	4.50							50	23.49	33.070	4.50	22.35	549	550	0.2896
70	18.59	33.390	4.25														

12月(December)

KOREA ,TAE BAEK SAN , STATION 314-00 , 33-00.0. N, 128-00.0. E, DEC.15.1982, 23:00 KST, DEPTH 160 , COLOR , TRANS.																	
WAVE NW 3, SWELL NW 2, WIND NW 3, BARO 1026. , AIR TEMP. DRY 9.9, WET , CLOUD. TYPE AS, AMT 08, WEATHER C ,																	
0	19.06	34.384	4.93							0	19.06	34.384	4.93	24.55	339	339	0.0000
10	19.15	34.399	4.98							10	19.15	34.399	4.98	24.54	340	340	0.0339
20	19.26	34.401	4.98							20	19.26	34.401	4.98	24.51	342	343	0.0681
30	19.29	34.388	4.95							30	19.29	34.388	4.95	24.49	344	345	0.1025
50	19.25	34.381	4.97							50	19.25	34.381	4.97	24.50	344	345	0.1716
75	19.26	34.377	5.02							75	19.26	34.377	5.02	24.49	344	346	0.2581
100	19.29	34.400	4.72							100	19.29	34.400	4.72	24.50	343	346	0.3448
125	19.30	34.384	4.62							125	19.30	34.384	4.62	24.49	345	348	0.4317
150	19.28	34.380	4.62							150	19.28	34.380	4.62	24.49	344	349	0.5190

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY
KOREA , TAE BAEK SAN , STATION 314-01 , 33-00.0. N, 127-42.0. E, DEC.16.1982, 00:05 KST, DEPTH 140 , COLOR , TRANS.																	
WAVE NE 3, SWELL NE 2, WIND NE 3, BARO 1025.5, AIR TEMP. DRY 10.0, WET , CLOUD. TYPE AS, AMT 08, WEATHER C ,																	
0	19.34	34.331	4.95							0	19.34	34.331	4.95	24.44	350	349	0.0000
10	19.34	34.369	4.92							10	19.34	34.369	4.92	24.47	347	347	0.0348
20	19.36	34.388	4.90							20	19.36	34.388	4.90	24.48	346	346	0.0695
30	19.37	34.400	4.88							30	19.37	34.400	4.88	24.48	345	346	0.1041
50	19.08	34.422	4.92							50	19.08	34.422	4.92	24.57	337	338	0.1726
75	19.43	34.395	5.02							75	19.43	34.395	5.02	24.46	347	349	0.2586
100	19.36	34.396	4.72							100	19.36	34.396	4.72	24.48	345	348	0.3459
KOREA , TAE BAEK SAN , STATION 314-02 , 33-00.0. N, 127-24.0. E, DEC.16.1982, 02:35 KST, DEPTH 126 , COLOR , TRANS.																	
WAVE NE 2, SWELL NE 3, BARO 1020.4, AIR TEMP. DRY 9.7, WET , CLOUD. TYPE AS, AMT 10, WEATHER C ,																	
0	19.25	34.404	5.04							0	19.25	34.404	5.04	24.52	342	342	0.0000
10	19.27	34.385	5.02							10	19.27	34.385	5.02	24.50	344	344	0.0343
20	19.34	34.371	5.07							20	19.34	34.371	5.07	24.47	347	347	0.0689
30	19.32	34.377	5.00							30	19.32	34.377	5.00	24.48	346	346	0.1036
50	19.25	34.392	5.00							50	19.25	34.392	5.00	24.51	343	344	0.1727
75	19.30	34.392	4.93							75	19.30	34.392	4.93	24.49	344	346	0.2591
100	19.28	34.381	4.63							100	19.28	34.381	4.63	24.49	344	347	0.3459
120	19.28	34.376	4.61														
KOREA , TAE BAEK SAN , STATION 314-03 , 33-00.0. N, 127-06.0. E, DEC.19.1982, 04:10 KST, DEPTH 110 , COLOR , TRANS.																	
WAVE NE 2, SWELL NE 2, WIND NE 3, BARO 1020.7, AIR TEMP. DRY 9.6, WET , CLOUD. TYPE AS, AMT 10, WEATHER C ,																	
0	18.89	34.408	5.02							0	18.89	34.408	5.02	24.61	333	333	0.0000
10	18.84	34.408	5.02							10	18.84	34.408	5.02	24.62	332	332	0.0332
20	18.84	34.419	5.02							20	18.84	34.419	5.02	24.63	331	331	0.0664

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

30	18.80	34.414	5.04							30	18.80	34.414	5.04	24.64	330	331	0.0996
50	18.77	*****	5.02							50	18.77	34.419	5.02	24.65	329	331	0.1659
75	18.77	34.426	4.92							75	18.77	34.426	4.92	24.66	329	331	0.2486
100	18.67	34.433	4.63							100	18.67	34.433	4.63	24.69	326	329	0.3312

KOREA .TAE BAEK SAN , STATION 314-04 , 33-00.0. N, 126-48.0. E, DEC.16.1982, 06:10 KST, DEPTH 100 , COLOR , TRANS.

WAVE NE 2, SWELL NE 2, WIND NE 2, BARD 1027.5, AIR TEMP. DRY 10.6, WET , CLOUD. TYPE AS, AMT 08, WEATHER C ,

0	18.63	34.438	5.07							0	18.63	34.438	5.07	24.70	325	324	0.0000
10	18.68	34.447	5.07							10	18.68	34.447	5.07	24.69	325	325	0.0325
20	18.73	34.451	5.03							20	18.73	34.451	5.03	24.68	326	326	0.0651
30	18.71	34.454	5.04							30	18.71	34.454	5.04	24.69	325	326	0.0978
50	18.71	34.449	5.04							50	18.71	34.449	5.04	24.69	326	327	0.1631
75	18.73	34.437	4.82							75	18.73	34.437	4.82	24.67	327	329	0.2453
95	16.11	34.481	4.55														

KOREA .TAE BAEK SAN . STATION 314-05 , 33-00.0. N, 126-50.0. E, DEC.16.1982, 07:40 KST, DEPTH 100 , COLOR , TRANS.

WAVE NE 1, SWELL NE 1, WIND NE 2, BARD 1027.1, AIR TEMP. DRY 10.8, WET , CLOUD. TYPE AS, AMT 08, WEATHER C ,

0	18.54	34.434	5.02							0	18.54	34.434	5.02	24.72	323	322	0.0000
10	18.66	34.444	5.02							10	18.66	34.444	5.02	24.70	325	325	0.0324
20	18.60	34.447	5.02							20	18.60	34.447	5.02	24.71	323	324	0.0648
30	18.55	34.451	5.02							30	18.55	34.451	5.02	24.73	322	322	0.0972
50	18.53	34.451	5.04							50	18.53	34.451	5.04	24.73	321	322	0.1618
75	18.33	34.455	4.79							75	18.33	34.455	4.79	24.79	316	318	0.2420
95	17.17	34.572	4.34														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA ,TAE BAEK SAN , STATION 314-06 , 33-00.0. N, 126-12.0. E, DEC.16.1982, 09:35 KST, DEPTH 110 , COLOR 3, TRANS. 14.0,

WAVE NE 1, SWELL NE 1, WIND NE 2, BARO 1020.1, AIR TEMP. DRY 11.9, WET , CLOUD. TYPE CU, AMT 10, WEATHER R ,

0	18.01	34.472	5.13							0	18.01	34.472	5.13	24.88	307	307	0.0000
10	18.06	34.465	5.01							10	18.06	34.465	5.01	24.86	309	309	0.0308
20	17.96	34.478	5.03							20	17.96	34.478	5.03	24.90	306	306	0.0616
30	17.76	34.499	5.03							30	17.76	34.499	5.03	24.96	300	300	0.0920
50	17.44	34.517	4.83							50	17.44	34.517	4.83	25.05	291	292	0.1513
75	17.39	34.518	4.78							75	17.39	34.518	4.78	25.07	290	292	0.2245
100	17.44	34.547	4.33							100	17.44	34.547	4.33	25.08	289	292	0.2775

KOREA ,TAE BAEK SAN , STATION 314-07 , 33-00.0. N, 125-54.0. E, DEC.16.1982, 11:15 KST, DEPTH 90 , COLOR 3, TRANS. 14.0,

WAVE N 1, SWELL N 1, WIND N 1, BARO 1021.5, AIR TEMP. DRY 9.8, WET , CLOUD. TYPE AS, AMT 10, WEATHER R ,

0	18.20	34.451	5.07							0	18.20	34.451	5.07	24.82	313	313	0.0000
10	18.18	34.450	5.02							10	18.18	34.450	5.02	24.82	313	313	0.0313
20	18.18	34.466	5.02							20	18.18	34.466	5.02	24.83	312	312	0.0626
30	18.18	34.453	4.98							30	18.18	34.453	4.98	24.82	313	313	0.0940
50	18.16	34.478	4.77							50	18.16	34.478	4.77	24.85	311	312	0.1566
75	18.20	34.478	4.73							75	18.20	34.478	4.73	24.84	311	313	0.2348
85	18.18	34.455	4.42														

KOREA ,TAE BAEK SAN , STATION 314-08 , 33-00.0. N, 125-36.0. E, DEC.16.1982, 13:00 KST, DEPTH 90 , COLOR 3, TRANS. 14.0,

WAVE NW 2, SWELL NW 2, WIND NW 2, BARO 1020. , AIR TEMP. DRY 9.6, WET , CLOUD. TYPE NS, AMT 10, WEATHER R ,

0	17.79	34.464	5.12							0	17.79	34.464	5.12	24.93	303	303	0.0000
10	17.73	34.477	5.12							10	17.73	34.477	5.12	24.95	301	301	0.0302
20	17.74	34.493	5.07							20	17.74	34.493	5.07	24.96	300	300	0.0602
30	17.73	34.494	4.98							30	17.73	34.494	4.98	24.96	299	300	0.0903

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

50	17.66	34.510	4.88							50	17.66	34.510	4.88	24.99	297	298	0.1502
75	17.51	34.535	4.73							75	17.51	34.535	4.73	25.05	291	293	0.2242
85	17.45	34.537	4.56														

KOREA ,TAE BAEK SAN , STATION 314-09 , 33-00.0. N, 125-18.0. E, DEC.16.1982, 14:45 KST, DEPTH 80 , COLOR 3, TRANS. 15.0,

WAVE NW 2, SWELL NW 3, BARO 1012.6, AIR TEMP. DRY 11.4, WET , CLOUD. TYPE NS, AMT 10, WEATHER C ,

0	18.01	34.481	5.12							0	18.01	34.481	5.12	24.89	307	306	0.0000
10	18.01	34.483	5.04							10	18.01	34.483	5.04	24.89	307	307	0.0307
20	18.09	34.477	5.08							20	18.09	34.477	5.08	24.86	309	309	0.0619
30	18.02	34.478	5.07							30	18.02	34.478	5.07	24.88	307	308	0.0924
50	18.01	34.480	4.80							50	18.01	34.480	4.80	24.89	307	308	0.1541
75	17.78	34.479	4.72							75	17.78	34.479	4.72	24.94	302	304	0.2307

KOREA ,TAE BAEK SAN , STATION 314-10 , 33-00.0. N, 125-00.0. E, DEC.16.1982, 16:30 KST, DEPTH 75 , COLOR 3, TRANS. 14.0,

WAVE NW 3, SWELL NW 2, WIND NW 3, BARO 1018.5, AIR TEMP. DRY 11.8, WET , CLOUD. TYPE NS, AMT 09, WEATHER C ,

0	17.76	34.493	5.02							0	17.76	34.493	5.02	24.96	300	300	0.0000
10	17.88	34.500	5.03							10	17.88	34.500	5.03	24.93	302	302	0.0301
20	17.62	34.492	5.02							20	17.62	34.492	5.02	24.99	297	297	0.0601
30	17.78	34.488	5.02							30	17.78	34.488	5.02	24.95	301	302	0.0901
50	17.73	34.492	4.93							50	17.73	34.492	4.93	24.96	299	301	0.1505
70	17.63	34.514	4.73														

西 海 海 洋 調 查 成 績

OCEANOGRAPHIC DATA: WESTERN WATERS

1 9 8 2

307線 海洋觀測 成績

Oceanographic Data. Line 307

OBSERVED														INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY				

2月(February)

KOREA , HAN RA SAN , STATION 307-03 , 36-56.5. N, 126-00.0. E, FEB. 8.1982, 11:50 KST, DEPTH 40 , COLOR 7, TRANS. 2.0,

WAVE 2, SWELL 1, WIND NE 2, BARO 1035.5, AIR TEMP. DRY 4.3, WET , CLOUD. TYPE AS, AMT 01, WEATHER B ,

0	3.86	32.540	*****							0	3.86	32.540	*****	25.86	214	214	0.0000
10	3.86	32.530	*****							10	3.86	32.530	*****	25.86	215	214	0.0214
20	3.90	32.520	*****							20	3.90	32.520	*****	25.84	216	216	0.0429
37	3.88	32.520	*****							30	3.88	32.520	*****	25.84	216	216	0.0646

KOREA , HAN RA SAN , STATION 307-04 , 36-55.5. N, 125-37.7. E, FEB. 8.1982, 14:30 KST, DEPTH 38 , COLOR 6, TRANS. 2.0,

WAVE 3, SWELL 2, WIND NE 3, BARO 1034. , AIR TEMP. DRY 2.5, WET , CLOUD. TYPE AS, AMT 01, WEATHER B ,

0	3.00	32.270	*****							0	3.00	32.270	*****	25.73	227	227	0.0000
10	3.20	32.300	*****							10	3.20	32.300	*****	25.73	226	226	0.0226
20	3.20	32.300	*****							20	3.20	32.300	*****	25.73	226	226	0.0453
35	3.22	32.300	*****							30	3.21	32.300	*****	25.73	226	226	0.0679

KOREA , HAN RA SAN , STATION 307-05 , 36-55.5. N, 125-25.0. E, FEB. 8.1982, 16:10 KST, DEPTH 55 , COLOR 6, TRANS. 3.0,

WAVE 3, SWELL 2, WIND NE 3, BARO 1034. , AIR TEMP. DRY 4.0, WET , CLOUD. TYPE AS, AMT 02, WEATHER B ,

0	3.22	32.360	*****							0	3.22	32.360	*****	25.78	222	222	0.0000
10	3.22	32.360	*****							10	3.22	32.360	*****	25.78	222	222	0.0222
20	3.25	32.380	*****							20	3.25	32.380	*****	25.79	221	220	0.0443
30	3.30	32.400	*****							30	3.30	32.400	*****	25.80	220	219	0.0663
52	3.27	32.450	*****							50	3.27	32.445	*****	25.84	216	216	0.1100

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA , HAN RA SAN , STATION 307-06 , 36-55.5. N, 125-12.5. E, FEB. 8.1982, 17:55 KST, DEPTH 63 , COLOR 5, TRANS. 3.0, WAVE 3, SWELL 2, WIND NE 3, BARO 1034. , AIR TEMP. DRY , WET , CLOUD. TYPE AS, AMT 03, WEATHER BC,																	
0	3.25	32.500	*****							0	3.25	32.500	*****	25.89	212	211	0.0000
10	3.17	32.540	*****							10	3.17	32.540	*****	25.93	208	208	0.0209
20	3.18	32.560	*****							20	3.18	32.560	*****	25.94	206	206	0.0417
30	3.29	32.560	*****							30	3.29	32.560	*****	25.93	207	207	0.0624
50	3.25	32.540	*****							50	3.25	32.540	*****	25.92	209	208	0.1041
60	3.50	32.540	*****														
KOREA , HAN RA SAN , STATION 307-07 , 36-55.5. N, 125-00.0. E, FEB. 8.1982, 19:40 KST, DEPTH 56 , COLOR , TRANS. , WAVE 3, SWELL 2, WIND NE 3, BARO 1034. , AIR TEMP. DRY 2.0, WET , CLOUD. TYPE AS, AMT 04, WEATHER BC,																	
0	5.43	32.810	*****							0	5.43	32.810	*****	25.91	209	209	0.0000
10	5.30	32.860	*****							10	5.30	32.860	*****	25.96	204	204	0.0207
20	5.37	32.810	*****							20	5.37	32.810	*****	25.92	209	209	0.0414
30	5.31	32.770	*****							30	5.31	32.770	*****	25.89	211	211	0.0624
50	5.35	32.810	*****							50	5.34	32.804	*****	25.92	209	209	0.1045
KOREA , HAN RA SAN , STATION 307-08 , 36-55.5. N, 124-47.5. E, FEB. 8.1982, 21:25 KST, DEPTH 63 , COLOR , TRANS. , WAVE 3, SWELL 2, WIND NW 3, BARO 1034. , AIR TEMP. DRY 1.8, WET , CLOUD. TYPE AS, AMT 04, WEATHER BC,																	
0	5.40	32.830	*****							0	5.40	32.830	*****	25.93	208	207	0.0000
10	5.55	32.830	*****							10	5.55	32.830	*****	25.91	209	209	0.0208
20	5.44	32.830	*****							20	5.44	32.830	*****	25.92	208	208	0.0417
30	5.39	32.830	*****							30	5.39	32.830	*****	25.93	208	208	0.0626
50	5.33	32.810	*****							50	5.33	32.810	*****	25.92	208	209	0.1043
60	5.44	32.790	*****														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY

KOREA ,HAN RA SAN , STATION 307-09 , 36-55.5. N, 124-34.8. E, FEB. 8.1982, 23:10 KST, DEPTH 68 , COLOR , TRANS.																	
WAVE 3, SWELL 2, WIND NW 3, BARO 1033.6, AIR TEMP. DRY 1.8, WET , CLOUD. TYPE AS, AMT 04, WEATHER BC,																	
0	5.62	32.810	*****							0	5.62	32.810	*****	25.89	212	211	0.0000
10	5.80	32.770	*****							10	5.80	32.770	*****	25.83	217	216	0.0214
20	5.75	32.790	*****							20	5.75	32.790	*****	25.86	215	214	0.0430
30	5.72	32.810	*****							30	5.72	32.810	*****	25.88	213	213	0.0644
50	5.78	32.830	*****							50	5.78	32.830	*****	25.88	212	212	0.1070
65	5.60	32.810	*****														

KOREA ,HAN RA SAN , STATION 307-10 , 36-55.5. N, 124-22.3. E, FEB. 9.1982, 01:00 KST, DEPTH 76 , COLOR , TRANS.																	
WAVE 2, SWELL 1, WIND NW 2, BARO 1033. , AIR TEMP. DRY 2.2, WET , CLOUD. TYPE AS, AMT 07, WEATHER BC,																	
0	5.60	32.830	*****							0	5.60	32.830	*****	25.91	210	210	0.0000
10	5.76	32.810	*****							10	5.76	32.810	*****	25.87	213	213	0.0211
20	5.81	32.830	*****							20	5.81	32.830	*****	25.88	212	212	0.0424
29	5.76	32.860	*****							30	5.75	32.863	*****	25.91	209	209	0.0636
49	5.74	32.920	*****							50	5.71	32.928	*****	25.97	204	204	0.1050
72	5.10	33.120	*****														

4月(April)

KOREA ,HAN RA SAN , STATION 307-03 , 36-56.5. N, 126-00.0. E, APR. 6.1982, 21:05 KST, DEPTH 39 , COLOR , TRANS.																	
WAVE 2, SWELL 1, WIND W 1, BARO 1022.5, AIR TEMP. DRY 8.5, WET , CLOUD. TYPE , AMT , WEATHER B ,																	
0	6.12	32.340	*****							0	6.12	32.340	*****	25.46	253	252	0.0000
10	4.82	32.360	*****							10	4.82	32.360	*****	25.62	237	237	0.0244
20	4.86	32.390	*****							20	4.86	32.390	*****	25.64	235	235	0.0481
35	4.70	32.590	*****							30	4.75	32.523	*****	25.76	224	224	0.0710

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA , HAN RA SAN , STATION 307-04 , 36-55.5. N, 125-37.7. E, APR. 6.1982, 23:45 KST, DEPTH 37 , COLOR , TRANS.																	
WAVE 2, SWELL 1, WIND W 1, BARO 1021.5, AIR TEMP. DRY 8.8, WET , CLOUD. TYPE , AMT , WEATHER B ,																	
0	6.80	32.470	*****							0	6.80	32.470	*****	25.47	251	251	0.0000
10	5.00	32.590	*****							10	5.00	32.590	*****	25.78	221	221	0.0236
20	6.75	32.590	*****							20	6.75	32.590	*****	25.57	241	241	0.0468
33	4.65	32.610	*****							30	5.13	32.605	*****	25.78	222	222	0.0700
KOREA , HAN RA SAN , STATION 307-05 , 36-55.5. N, 125-25.0. E, APR. 7.1982, 01:20 KST, DEPTH 52 , COLOR , TRANS.																	
WAVE 2, SWELL 1, WIND W 2, BARO 1022. , AIR TEMP. DRY 9.0, WET , CLOUD. TYPE , AMT , WEATHER B ,																	
0	7.05	32.610	*****							0	7.05	32.610	*****	25.55	244	243	0.0000
10	5.80	32.650	*****							10	5.80	32.650	*****	25.74	226	225	0.0234
20	4.72	32.700	*****							20	4.72	32.700	*****	25.90	210	210	0.0453
30	4.71	32.760	*****							30	4.71	32.760	*****	25.95	206	206	0.0661
48	4.65	32.790	*****														
KOREA , HAN RA SAN , STATION 307-06 , 36-55.5. N, 125-12.5. E, APR. 7.1982, 03:05 KST, DEPTH 60 , COLOR , TRANS.																	
WAVE 2, SWELL 1, WIND NW 2, BARO 1020. , AIR TEMP. DRY 9.0, WET , CLOUD. TYPE , AMT , WEATHER B ,																	
0	6.59	32.560	*****							0	6.59	32.560	*****	25.57	242	241	0.0000
10	5.38	32.590	*****							10	5.38	32.590	*****	25.74	225	225	0.0233
20	5.00	32.590	*****							20	5.00	32.590	*****	25.78	221	221	0.0457
30	4.92	32.790	*****							30	4.92	32.790	*****	25.95	205	205	0.0671
50	4.95	32.790	*****							50	4.95	32.790	*****	25.95	206	206	0.1083
55	4.90	32.830	*****														
KOREA , HAN RA SAN , STATION 307-07 , 36-55.5. N, 125-00.0. E, APR. 7.1982, 04:45 KST, DEPTH 60 , COLOR , TRANS.																	
WAVE 2, SWELL 1, WIND NW 2, BARO 1020. , AIR TEMP. DRY 8.5, WET , CLOUD. TYPE , AMT , WEATHER B ,																	
0	7.50	32.660	*****							0	7.50	32.660	*****	25.53	246	246	0.0000

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
10	5.90	32.560	*****							10	5.90	32.560	*****	25.66	234	233	0.0239
20	5.91	32.560	*****							20	5.91	32.560	*****	25.66	234	234	0.0473
30	5.20	32.900	*****							30	5.20	32.900	*****	26.01	200	200	0.0691
55	5.21	32.950	*****							50	5.20	32.940	*****	26.04	197	197	0.1090
KOREA , HAN RA SAN , STATION 307-08 , 36-55.5. N, 124-47.5. E, APR. 7.1982, 06:20 KST, DEPTH 66 , COLOR , TRANS.																	
WAVE 2, SWELL 1, WIND NW 2, BARO 1021. , AIR TEMP. DRY 8.5, WET , CLOUD. TYPE , AMT , WEATHER B ,																	
0	7.58	32.880	*****							0	7.58	32.880	*****	25.69	231	230	0.0000
10	6.38	32.970	*****							10	6.38	32.970	*****	25.92	209	208	0.0219
20	6.08	32.950	*****							20	6.08	32.950	*****	25.94	206	206	0.0427
30	5.82	32.970	*****							30	5.82	32.970	*****	25.99	202	202	0.0632
50	5.52	32.950	*****							50	5.52	32.950	*****	26.01	200	200	0.1035
60	5.48	32.970	*****														
KOREA , HAN RA SAN , STATION 307-09 , 36-55.5. N, 124-34.8. E, APR. 7.1982, 08:15 KST, DEPTH 68 , COLOR 3, TRANS. 10.0,																	
WAVE 2, SWELL 1, WIND W 2, BARO 1020. , AIR TEMP. DRY 8.9, WET , CLOUD. TYPE , AMT , WEATHER B ,																	
0	7.30	32.920	*****							0	7.30	32.920	*****	25.76	224	224	0.0000
10	6.57	32.880	*****							10	6.57	32.880	*****	25.82	218	217	0.0220
20	6.20	32.900	*****							20	6.20	32.900	*****	25.89	212	212	0.0435
30	5.97	32.900	*****							30	5.97	32.900	*****	25.92	209	209	0.0646
50	5.24	32.940	*****							50	5.24	32.940	*****	26.03	198	198	0.1054
65	5.90	32.970	*****														
KOREA , HAN RA SAN , STATION 307-10 , 36-55.5. N, 124-22.3. E, APR. 7.1982, 10:05 KST, DEPTH 77 , COLOR 3, TRANS. 9.0,																	
WAVE 1, SWELL 1, WIND W 1, BARO 1020. , AIR TEMP. DRY 10.7, WET , CLOUD. TYPE , AMT , WEATHER B ,																	
0	7.62	33.000	*****							0	7.62	33.000	*****	25.78	222	222	0.0000
10	6.50	33.000	*****							10	6.50	33.000	*****	25.93	208	208	0.0215

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

20	6.30	33.000	*****							20	6.30	33.000	*****	25.95	205	205	0.0422
30	6.38	32.960	*****							30	6.38	32.960	*****	25.91	209	209	0.0629
50	5.95	32.970	*****							50	5.95	32.970	*****	25.97	203	204	0.1043
73	5.95	32.970	*****														

6月(June)

KOREA ,HAN RA SAN , STATION 307-03 , 36-56.5. N, 126-00.0. E, JUN. 5.1982, 11:00 KST, DEPTH 38 , COLOR 3, TRANS. 10.0,

WAVE 1, SWELL 1, WIND NW 1, BARO 1015.5, AIR TEMP. DRY 16.3, WET , CLOUD. TYPE CI, AMT 02, WEATHER B ,

0	15.92	32.210	*****							0	15.92	32.210	*****	23.64	426	425	0.0000
10	12.35	32.270	*****							10	12.35	32.270	*****	24.42	351	351	0.0388
20	12.19	32.290	*****							20	12.19	32.290	*****	24.47	347	347	0.0738
35	12.07	32.290	*****							30	12.11	32.290	*****	24.48	345	346	0.1084

KOREA ,HAN RA SAN , STATION 307-04 , 36-55.5. N, 125-37.7. E, JUN. 5.1982, 13:40 KST, DEPTH 37 , COLOR 3, TRANS. 10.0,

WAVE 1, SWELL 1, WIND NW 1, BARO 1015.5, AIR TEMP. DRY 18.5, WET , CLOUD. TYPE CI, AMT 07, WEATHER BC,

0	15.60	32.230	*****							0	15.60	32.230	*****	23.73	417	417	0.0000
10	14.18	32.250	*****							10	14.18	32.250	*****	24.04	387	387	0.0402
20	11.49	32.410	*****							20	11.49	32.410	*****	24.69	326	326	0.0759
34	11.27	32.410	*****							30	11.33	32.410	*****	24.72	323	323	0.1084

KOREA ,HAN RA SAN , STATION 307-05 , 36-55.5. N, 125-25.0. E, JUN. 5.1982, 15:20 KST, DEPTH 52 , COLOR 3, TRANS. 12.0,

WAVE 1, SWELL 1, WIND W 1, BARO 1014.8, AIR TEMP. DRY 19.8, WET , CLOUD. TYPE CI, AMT 03, WEATHER BC,

0	16.55	32.200	*****							0	16.55	32.200	*****	23.49	440	440	0.0000
10	12.56	32.250	*****							10	12.56	32.250	*****	24.37	356	356	0.0398
20	10.90	32.480	*****							20	10.90	32.480	*****	24.85	310	310	0.0732
30	10.66	32.560	*****							30	10.66	32.560	*****	24.95	300	301	0.1038

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY

KOREA ,HAN RA SAN , STATION 307-06 , 36-55.5. N, 125-12.5. E, JUN. 5.1982, 17:05 KST, DEPTH 59 , COLOR 3, TRANS. 13.0,
 WAVE 1, SWELL 1, WIND W 1, BARO 1014.4, AIR TEMP. DRY 20.0, WET , CLOUD. TYPE CI, AMT 03, WEATHER BC,
 0 17.01 32.520 ***** 0 17.01 32.520 ***** 23.63 427 426 0.0000
 10 15.90 32.500 ***** 10 15.90 32.500 ***** 23.87 404 404 0.0415
 20 11.87 32.650 ***** 20 11.87 32.650 ***** 24.81 314 315 0.0775
 30 8.81 32.630 ***** 30 8.81 32.630 ***** 25.31 266. 267. 0.1066
 50 7.75 32.660 ***** 50 7.75 32.660 ***** 25.49 249 250 0.1583
 55 7.90 32.680 *****

KOREA ,HAN RA SAN , STATION 307-07 , 36-55.5. N, 125-00.0. E, JUN. 5.1982, 18:50 KST, DEPTH 60 , COLOR 3, TRANS. 13.0,
 WAVE 1, SWELL 1, WIND SW 1, BARO 1014.5, AIR TEMP. DRY 19.7, WET , CLOUD. TYPE CI, AMT 03, WEATHER BC,
 0 17.15 32.520 ***** 0 17.15 32.520 ***** 23.59 430 430 0.0000
 10 14.02 32.740 ***** 10 14.02 32.740 ***** 24.45 348 348 0.0389
 20 12.82 32.740 ***** 20 12.82 32.740 ***** 24.70 325 325 0.0726
 30 10.21 32.790 ***** 30 10.21 32.790 ***** 25.21 276 276 0.1027
 50 6.40 32.770 ***** 50 6.40 32.770 ***** 25.76 224 224 0.1528
 55 6.38 32.770 *****

KOREA ,HAN RA SAN , STATION 307-08 , 36-55.5. N, 124-47.5. E, JUN. 5.1982, 20:35 KST, DEPTH 63 , COLOR , TRANS. ,
 WAVE 1, SWELL 1, WIND W 1, BARO 1015. , AIR TEMP. DRY 18.0, WET , CLOUD. TYPE , AMT 00, WEATHER B ,
 0 17.60 32.660 ***** 0 17.60 32.660 ***** 23.60 430 430 0.0000
 10 13.78 32.760 ***** 10 13.78 32.760 ***** 24.52 342 342 0.0386
 20 11.55 32.770 ***** 20 11.55 32.770 ***** 24.96 300 300 0.0707
 30 8.18 32.760 ***** 30 8.18 32.760 ***** 25.51 248 248 0.0982
 50 6.12 32.760 ***** 50 6.12 32.760 ***** 25.79 221 221 0.1452
 60 6.19 32.760 *****

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA , HAN RA SAN , STATION 307-09 , 36-55.5. N, 124-34.8. E, JUN. 5.1982, 02:20 KST, DEPTH 69 , COLOR , TRANS.
 WAVE 1, SWELL 1, WIND W 1, BARO 1015. , AIR TEMP. DRY 17.5, WET , CLOUD. TYPE , AMT 00, WEATHER B ,
 0 16.43 32.720 ***** 0 16.43 32.720 ***** 23.91 399 399 0.0000
 10 14.05 32.830 ***** 10 14.05 32.830 ***** 24.52 342 342 0.0370
 20 12.67 32.830 ***** 20 12.67 32.830 ***** 24.79 316 316 0.0700
 30 6.78 32.850 ***** 30 6.78 32.850 ***** 25.77 222 222 0.0949
 50 6.40 32.880 ***** 50 6.40 32.880 ***** 25.85 216 216 0.1409
 65 6.48 32.880 *****

KOREA , HAN RA SAN , STATION 307-10 , 36-55.5. N, 124-22.3. E, JUN. 6.1982, 00:10 KST, DEPTH 75 , COLOR , TRANS.
 WAVE 1, SWELL 1, WIND SW 1, BARO 1015.5, AIR TEMP. DRY 17.5, WET , CLOUD. TYPE , AMT 00, WEATHER B ,
 0 16.30 32.710 ***** 0 16.30 32.710 ***** 23.94 397 397 0.0000
 10 13.43 32.790 ***** 10 13.43 32.790 ***** 24.61 333 333 0.0365
 20 10.36 32.900 ***** 20 10.36 32.900 ***** 25.27 270 270 0.0667
 30 7.69 32.900 ***** 30 7.69 32.900 ***** 25.69 231 231 0.0918
 50 6.65 32.880 ***** 50 6.65 32.880 ***** 25.81 219 219 0.1369
 70 6.66 32.880 *****

8月(August)

KOREA , HAN RA SAN , STATION 307-03 , 36-56.5. N, 126-00.0. E, AUG. 8.1982, 09:35 KST, DEPTH 38 , COLOR S. TRANS. 8.0,
 WAVE 3, SWELL 2, WIND SE 3, BARO 1012. , AIR TEMP. DRY 26.4, WET , CLOUD. TYPE AS, AMT 06, WEATHER BC,
 0 23.87 32.070 ***** 0 23.87 32.070 ***** 21.48 632 632 0.0000
 10 21.61 32.160 ***** 10 21.61 32.160 ***** 22.19 564 564 0.0578
 20 20.87 32.320 ***** 20 20.87 32.320 ***** 22.51 534 534 0.1148
 35 19.18 32.430 ***** 30 19.74 32.393 ***** 22.86 501 501 0.1665

OBSERVED									INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA , HAN RA SAN , STATION 307-04 , 36-55.5. N, 125-37.7. E, AUG. 8.1982, 12:15 KST, DEPTH 34 , COLOR 5, TRANS. 9.0, WAVE 3, SWELL 2, WIND SE 3, BARO 1013. , AIR TEMP. DRY 27.0, WET , CLOUD. TYPE CI, AMT 04, WEATHER BC,																	
0	25.33	32.120	*****							0	25.33	32.120	*****	21.09	670	670	0.0000
10	22.44	32.170	*****							10	22.44	32.170	*****	21.97	586	586	0.0628
20	19.20	32.270	*****							20	19.20	32.270	*****	22.91	496	496	0.1169
30	15.66	32.450	*****							30	15.66	32.450	*****	23.88	403	403	0.1619
KOREA , HAN RA SAN , STATION 307-05 , 36-55.5. N, 125-25.0. E, AUG. 8.1982, 13:55 KST, DEPTH 52 , COLOR 5, TRANS. 9.0, WAVE 3, SWELL 2, WIND SE 3, BARO 1012. , AIR TEMP. DRY 28.1, WET , CLOUD. TYPE CI, AMT 04, WEATHER BC,																	
0	26.10	32.090	*****							0	26.10	32.090	*****	20.83	695	694	0.0000
10	25.88	32.120	*****							10	25.88	32.120	*****	20.92	686	686	0.0690
20	22.69	32.410	*****							20	22.69	32.410	*****	22.08	575	575	0.1321
30	14.46	32.480	*****							30	14.46	32.480	*****	24.16	376	376	0.1797
48	13.61	34.700	*****														
KOREA , HAN RA SAN , STATION 307-06 , 36-55.5. N, 125-12.5. E, AUG. 8.1982, 15:40 KST, DEPTH 60 , COLOR 5, TRANS. 9.0, WAVE 4, SWELL 3, WIND SE 4, BARO 1011. , AIR TEMP. DRY 28.7, WET , CLOUD. TYPE AS, AMT 07, WEATHER BC,																	
0	26.46	32.290	*****							0	26.46	32.290	*****	20.87	691	691	0.0000
10	26.38	32.250	*****							10	26.38	32.250	*****	20.86	691	691	0.0691
20	24.15	32.390	*****							20	24.15	32.390	*****	21.64	617	617	0.1346
30	11.17	32.430	*****							30	11.17	32.430	*****	24.76	319	319	0.1814
50	10.22	32.700	*****							50	10.22	32.700	*****	25.14	283	284	0.2417
55	9.66	32.810	*****														
KOREA , HAN RA SAN , STATION 307-07 , 36-55.5. N, 125-00.0. E, AUG. 8.1982, 17:25 KST, DEPTH 56 , COLOR 5, TRANS. 10.0, WAVE 3, SWELL 2, WIND SE 4, BARO 1011.5, AIR TEMP. DRY 26.7, WET , CLOUD. TYPE AS, AMT 09, WEATHER C ,																	
0	26.69	32.120	*****							0	26.69	32.120	*****	20.67	710	710	0.0000

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

10	26.55	32.110	****							10	26.55	32.110	****	20.70	707	707	0.0708
20	26.36	32.360	****							20	26.36	32.360	****	20.95	683	683	0.1404
30	9.28	32.360	****							30	9.28	32.360	****	25.03	293	294	0.1892
50	8.20	32.770	****							50	8.20	32.770	****	25.51	247	248	0.2435

KOREA , HAN RA SAN , STATION 307-08 , 36-55.5. N, 124-47.5. E, AUG. 8.1982, 19:10 KST, DEPTH 64 , COLOR , TRANS.

WAVE	4, SWELL	3, WIND SE	4, BARO 1011. , AIR TEMP. DRY 27.7, WET														
0	26.67	32.110	****							0	26.67	32.110	****	20.67	710	710	0.0000
10	26.15	32.110	****							10	26.15	32.110	****	20.83	695	695	0.0702
20	22.29	32.250	****							20	22.29	32.250	****	22.07	576	576	0.1338
30	8.95	32.340	****							30	8.95	32.340	****	25.06	290	290	0.1772
50	8.79	32.340	****							50	8.79	32.340	****	25.09	288	288	0.2351
60	8.45	32.630	****														

KOREA , HAN RA SAN , STATION 307-09 , 36-55.5. N, 124-34.8. E, AUG. 8.1982, 20:55 KST, DEPTH 65 , COLOR , TRANS.

WAVE	4, SWELL	3, WIND SE	4, BARO 1012. , AIR TEMP. DRY 26.8, WET														
0	26.70	32.100	****							0	26.70	32.100	****	20.65	712	712	0.0000
10	26.58	32.110	****							10	26.58	32.110	****	20.70	707	707	0.0709
20	16.50	32.430	****							20	16.50	32.430	****	23.68	422	422	0.1275
30	8.66	32.430	****							30	8.66	32.430	****	25.18	279	279	0.1626
50	8.21	32.500	****							50	8.21	32.500	****	25.30	268	268	0.2175
60	8.15	32.680	****														

KOREA , HAN RA SAN , STATION 307-10 , 36-55.5. N, 124-22.3. E, AUG. 8.1982, 22:45 KST, DEPTH 76 , COLOR , TRANS.

WAVE	4, SWELL	3, WIND SE	4, BARO 1011.5, AIR TEMP. DRY 26.7, WET														
0	26.37	32.340	****							0	26.37	32.340	****	20.93	685	684	0.0000
10	25.96	32.340	****							10	25.96	32.340	****	21.06	672	672	0.0678

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY

20 16.12 32.340 *****
 30 8.71 32.390 *****
 50 8.28 32.610 *****
 70 8.34 33.030 *****

10月(October)

KOREA , HAN RA SAN , STATION 307-03 , 36-56.5. N, 126-00.0. E, OCT. 6.1982, 17:40 KST, DEPTH 38 , COLOR 5, TRANS. 7.0;
 WAVE 1, SWELL , WIND NNW 1, BARO 1021. , AIR TEMP. DRY 20.0, WET , CLOUD. TYPE , AMT 00, WEATHER B ,

0 20.43 32.770 5.39
 10 17.83 32.770 5.24
 20 19.80 32.770 5.30
 35 19.77 32.770 5.40

KOREA , HAN RA SAN , STATION 307-04 , 36-55.5. N, 125-57.7. E, OCT. 6.1982, 20:25 KST, DEPTH 35 , COLOR , TRANS. ,
 WAVE 1, SWELL , WIND NNW 1, BARO 1019. , AIR TEMP. DRY 20.6, WET , CLOUD. TYPE , AMT 00, WEATHER B ,

0 21.46 32.590 5.33
 10 20.62 32.660 5.33
 20 19.53 32.770 5.39
 30 19.00 32.610 5.41

KOREA , HAN RA SAN , STATION 307-05 , 36-55.5. N, 125-25.0. E, OCT. 6.1982, 22:05 KST, DEPTH 54 , COLOR , TRANS. ,
 WAVE 1, SWELL , WIND NW 1, BARO 1018.5, AIR TEMP. DRY 20.1, WET , CLOUD. TYPE , AMT 00, WEATHER B ,

0 21.84 32.520 5.59
 10 21.64 32.480 5.48
 20 20.36 32.480 5.59
 30 19.71 32.790 5.57

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

50 18.99 32.770 5.29

KOREA , HAN RA SAN , STATION 307-06 , 36-55.5. N, 125-12.5. E, OCT. 4.1982, 23:50 KST, DEPTH 60 , COLOR , TRANS.

WAVE 1, SWELL , WIND NW 1, BARO 1019. , AIR TEMP. DRY 20.1, WET , CLOUD. TYPE , AMT 00, WEATHER B ,

0	22.13	32.360	5.61							0	22.13	32.360	5.61	22.20	563	563	0.0000
10	22.01	32.360	5.48							10	22.01	32.360	5.48	22.23	560	560	0.0562
20	21.83	32.360	5.50							20	21.83	32.360	5.50	22.23	556	556	0.1120
30	20.39	32.700	5.42							30	20.39	32.700	5.42	22.93	494	494	0.1646
50	15.81	33.080	5.19							50	15.81	33.080	5.19	24.33	360	361	0.2502
55	14.69	33.080	5.11														

KOREA , HAN RA SAN , STATION 307-07 , 36-55.5. N, 125-00.0. E, OCT. 7.1982, 01:30 KST, DEPTH 58 , COLOR , TRANS.

WAVE 1, SWELL , WIND NW 1, BARO 1019. , AIR TEMP. DRY 20.0, WET , CLOUD. TYPE , AMT 00, WEATHER B ,

0	22.23	32.300	5.39							0	22.23	32.300	5.39	22.12	570	570	0.0000
10	22.08	32.300	5.38							10	22.08	32.300	5.38	22.17	567	567	0.0568
20	21.83	32.340	5.26							20	21.83	32.340	5.26	22.26	557	557	0.1131
30	20.23	32.380	5.17							30	20.23	32.380	5.19	22.72	513	514	0.1667
55	13.47	33.040	5.09							50	14.82	32.908	5.11	24.42	352	353	0.2534

KOREA , HAN RA SAN , STATION 307-08 , 36-55.5. N, 124-47.5. E, OCT. 7.1982, 03:15 KST, DEPTH 63 , COLOR , TRANS.

WAVE 1, SWELL , WIND NW 1, BARO 1019. , AIR TEMP. DRY 20.0, WET , CLOUD. TYPE , AMT 00, WEATHER B ,

0	22.25	32.390	5.29							0	22.25	32.390	5.29	22.19	565	564	0.0000
10	22.12	32.340	5.29							10	22.12	32.340	5.29	22.18	565	565	0.0564
20	21.69	32.470	5.24							20	21.69	32.470	5.24	22.40	544	544	0.1119
30	20.35	32.630	5.19							30	20.35	32.630	5.19	22.88	498	499	0.1641
50	11.84	33.030	5.19							50	11.84	33.030	5.19	25.11	286	287	0.2428
60	11.75	33.190	5.11														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA ,HAN RA SAN , STATION 307-09 , 36-55.5. N, 124-34.8. E, OCT. 7.1982, 04:55 KST, DEPTH 67 , COLOR , TRANS. ,
 WAVE 1, SWELL , WIND NNW 1, BARO 1019. , AIR TEMP. DRY 19.9, WET , CLOUD. TYPE , AMT 00, WEATHER B ,

0	22.28	32.070	5.02							0	22.28	32.070	5.02	21.94	588	588	0.0000
10	22.32	32.030	4.99							10	22.32	32.030	4.99	21.89	592	592	0.0590
20	21.69	32.430	4.97							20	21.69	32.430	4.97	22.37	547	547	0.1161
30	20.83	32.660	4.90							30	20.83	32.660	4.90	22.78	508	509	0.1689
50	11.16	33.060	4.90							50	11.16	33.060	4.90	25.25	272	273	0.2471
63	11.02	33.060	4.89														

KOREA ,HAN RA SAN , STATION 307-10 , 36-55.5. N, 124-22.3. E, OCT. 7.1982, 06:40 KST, DEPTH 76 , COLOR , TRANS. ,
 WAVE 1, SWELL , WIND NW 1, BARO 1019.5, AIR TEMP. DRY 20.1, WET , CLOUD. TYPE , AMT 00, WEATHER B ,

0	22.31	32.110	5.11							0	22.31	32.110	5.11	21.96	586	586	0.0000
10	22.15	32.140	4.91							10	22.15	32.140	4.91	22.03	580	580	0.0583
20	22.08	32.330	4.92							20	22.08	32.330	4.92	22.23	561	561	0.1154
30	20.50	32.410	4.99							30	20.50	32.410	4.99	22.68	518	518	0.1694
50	10.38	32.950	5.00							50	10.38	32.950	5.00	25.30	267	268	0.2481
70	10.06	33.150	4.99														

12月(December)

KOREA ,HAN RA SAN , STATION 307-03 , 36-56.5. N, 126-00.0. E, DEC.10.1982, 10:50 KST, DEPTH 38 , COLOR 7, TRANS. 2.0,
 WAVE 2, SWELL 1, WIND NE 2, BARO 1030. , AIR TEMP. DRY 7.0, WET , CLOUD. TYPE AS, AMT 06, WEATHER BC,

0	12.59	32.390	6.21							0	12.59	32.390	6.21	24.47	347	346	0.0000
10	12.81	32.390	6.11							10	12.81	32.390	6.11	24.43	351	350	0.0348
20	12.86	32.400	5.86							20	12.86	32.400	5.86	24.42	351	351	0.0700
35	12.96	32.410	5.82							30	12.92	32.406	5.83	24.42	352	352	0.1051

OBSERVED										INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY	

KOREA ,HAN RA SAN , STATION 307-04 , 36-55.5. N, 125-37.7. E, DEC.10.1982, 13:30 KST, DEPTH 35 , COLOR 7, TRANS. 2.0,
 WAVE 2, SWELL 1, WIND NE 2, BARO 1030. , AIR TEMP. DRY 8.0, WET , CLOUD. TYPE AS, AMT 08, WEATHER C ,

0	12.38	32.410	6.01							0	12.38	32.410	6.01	24.52	341	341	0.0000
10	12.31	32.400	6.07							10	12.31	32.400	6.07	24.53	341	341	0.0341
20	12.29	32.360	5.82							20	12.29	32.360	5.82	24.50	343	343	0.0683
30	12.31	32.340	5.81							30	12.31	32.340	5.81	24.48	345	345	0.1028

KOREA ,HAN RA SAN , STATION 307-05 , 36-55.5. N, 125-25.0. E, DEC.10.1982, 15:05 KST, DEPTH 54 , COLOR 7, TRANS. 2.0,
 WAVE 2, SWELL 1, WIND NE 2, BARO 1029. , AIR TEMP. DRY 8.2, WET , CLOUD. TYPE AS, AMT 09, WEATHER C ,

0	12.24	32.360	5.71							0	12.24	32.360	5.71	24.51	342	342	0.0000
10	12.14	32.360	5.91							10	12.14	32.360	5.91	24.53	341	341	0.0341
20	12.13	32.360	5.81							20	12.13	32.360	5.81	24.53	340	341	0.0682
30	12.17	32.370	5.41							30	12.17	32.370	5.41	24.53	340	341	0.1023
50	12.20	32.380	5.40							50	12.20	32.380	5.40	24.54	340	341	0.1706

KOREA ,HAN RA SAN , STATION 307-06 , 36-55.5. N, 125-12.5. E, DEC.10.1982, 16:50 KST, DEPTH 61 , COLOR 6, TRANS. 3.0,
 WAVE 2, SWELL 1, WIND NE 2, BARO 1024. , AIR TEMP. DRY 9.3, WET , CLOUD. TYPE AS, AMT 09, WEATHER C ,

0	12.02	32.340	6.09							0	12.02	32.340	6.09	24.54	340	340	0.0000
10	12.03	32.340	5.91							10	12.03	32.340	5.91	24.54	340	340	0.0340
20	11.76	32.480	5.73							20	11.76	32.480	5.73	24.70	325	325	0.0673
30	11.57	32.470	5.51							30	11.57	32.470	5.51	24.72	322	323	0.0997
50	11.52	32.450	5.51							50	11.52	32.450	5.51	24.72	323	324	0.1645
55	11.48	32.450	5.52														

KOREA ,HAN RA SAN , STATION 307-07 , 36-55.5. N, 125-00.0. E, DEC.10.1982, 18:30 KST, DEPTH 58 , COLOR , TRANS. ,
 WAVE 2, SWELL 1, WIND NE 3, BARO 1024. , AIR TEMP. DRY 9.2, WET , CLOUD. TYPE AS, AMT 10, WEATHER C ,

0	11.47	32.430	6.03							0	11.42	32.430	6.03	24.72	323	323	0.0000
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OBSERVED							INTERPOLATED							CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY

10 11.30 32.390 6.01
 20 11.25 32.300 5.98
 30 11.28 32.320 5.59
 55 10.33 32.310 5.51

KOREA , HAN RA SAN , STATION 307-08 , 36-55.5. N, 124-47.5. E, DEC.10.1982, 19:45 KST, DEPTH 63 , COLOR , TRANS. ,

WAVE 2, SWELL 1, WIND NE 2, BARO 1023. , AIR TEMP. DRY 9.2, WET , CLOUD. TYPE AS, AMT 10, WEATHER C ,
 0 11.42 32.660 6.16 0 11.42 32.660 6.16 24.90 306 306 0.0000
 10 11.33 32.660 6.11 10 11.33 32.660 6.11 24.91 304 304 0.0305
 20 11.28 32.500 6.02 20 11.28 32.500 6.02 24.80 315 315 0.0615
 30 11.25 32.450 5.91 30 11.25 32.450 5.91 24.76 318 319 0.0933
 50 8.45 32.450 5.61 50 8.45 32.450 5.61 25.22 275 275 0.1528
 60 8.31 32.450 5.04

KOREA , HAN RA SAN , STATION 307-09 , 36-55.5. N, 124-34.8. E, DEC.10.1982, 21:25 KST, DEPTH 67 , COLOR , TRANS. ,

WAVE 2, SWELL 1, WIND E 3, BARO 1022. , AIR TEMP. DRY 9.0, WET , CLOUD. TYPE AS, AMT 10, WEATHER C ,
 0 11.38 32.460 6.10 0 11.38 32.460 6.10 24.75 320 320 0.0000
 10 11.30 32.520 6.02 10 11.30 32.520 6.02 24.81 314 314 0.0317
 20 11.27 32.480 6.00 20 11.27 32.480 6.00 24.78 317 317 0.0633
 30 11.20 32.470 6.00 30 11.20 32.470 6.00 24.79 316 316 0.0950
 50 11.00 32.430 5.61 50 11.00 32.430 5.61 24.79 316 316 0.1584
 63 7.39 32.400 5.26

KOREA , HAN RA SAN , STATION 307-10 , 36-55.5. N, 124-22.3. E, DEC.10.1982, 23:10 KST, DEPTH 76 , COLOR , TRANS. ,

WAVE 3, SWELL 2, WIND E 3, BARO 1022. , AIR TEMP. DRY 9.2, WET , CLOUD. TYPE AS, AMT 10, WEATHER R ,
 0 11.44 32.480 6.10 0 11.44 32.480 6.10 24.75 319 319 0.0000
 10 11.43 32.390 6.01 10 11.43 32.390 6.01 24.69 326 326 0.0323

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
20	11.23	32.380	6.01							20	11.23	32.380	6.01	24.71	323	323	0.0648
30	11.00	32.340	5.91							30	11.00	32.340	5.91	24.72	322	323	0.0971
50	10.43	32.290	5.71							50	10.43	32.290	5.71	24.78	317	317	0.1612
70	7.47	32.280	5.30														

Oceanographic Data. Line 308

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

2月(February)

KOREA , HAN RA SAN , STATION 308-01 , 36-19.8. N, 126-14.4. E, FEB. 9.1982, 22:00 KST, DEPTH 23 , COLOR , TRANS. ,																
WAVE 4, SWELL 2, WIND NW 4, BARO 1032. , AIR TEMP. DRY - .5, WET , CLOUD. TYPE AS, AMT 03, WEATHER BC,																
0	3.90	32.590	*****						0	3.90	32.590	*****	25.90	210	210	0.0000
10	3.90	32.540	*****						10	3.90	32.540	*****	25.86	214	214	0.0212
20	3.80	32.540	*****						20	3.80	32.540	*****	25.87	213	213	0.0426
KOREA , HAN RA SAN , STATION 308-02 , 36-19.8. N, 126-02.3. E, FEB. 9.1982, 20:20 KST, DEPTH 30 , COLOR , TRANS. ,																
WAVE 4, SWELL 2, WIND NW 4, BARO 1031. , AIR TEMP. DRY .2, WET , CLOUD. TYPE AS, AMT 04, WEATHER BC,																
0	3.99	32.480	*****						0	3.99	32.480	*****	25.80	220	219	0.0000
10	4.08	32.480	*****						10	4.08	32.480	*****	25.79	220	220	0.0220
20	4.12	32.480	*****						20	4.12	32.480	*****	25.79	221	221	0.0441
27	4.10	32.500	*****													
KOREA , HAN RA SAN , STATION 308-03 , 36-19.8. N, 125-50.0. E, FEB. 9.1982, 18:35 KST, DEPTH 50 , COLOR , TRANS. ,																
WAVE 4, SWELL 2, WIND NW 4, BARO 1030.9, AIR TEMP. DRY -.6, WET , CLOUD. TYPE AS, AMT 07, WEATHER BC,																
0	3.99	32.480	*****						0	3.99	32.480	*****	25.80	220	219	0.0000
10	4.05	32.480	*****						10	4.05	32.480	*****	25.80	220	220	0.0220
20	4.02	32.500	*****						20	4.02	32.500	*****	25.82	218	218	0.0439
30	3.95	32.500	*****						30	3.95	32.500	*****	25.82	218	218	0.0658
47	3.90	32.520	*****													
KOREA , HAN RA SAN , STATION 308-04 , 36-19.8. N, 125-37.0. E, FEB. 9.1982, 16:55 KST, DEPTH 55 , COLOR , TRANS. 3.0,																
WAVE 3, SWELL 2, WIND NW 3, BARO 1029.5, AIR TEMP. DRY 1.5, WET , CLOUD. TYPE AS, AMT 06, WEATHER BC,																
0	3.95	32.560	*****						0	3.95	32.560	*****	25.87	213	213	0.0000
10	3.95	32.560	*****						10	3.95	32.560	*****	25.87	213	213	0.0213

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY

20 4.10 32.570 *****
30 4.15 32.590 *****
50 4.00 32.560 *****

KOREA ,HAN RA SAN , STATION 308-05 , 36-19.8. N, 125-25.3. E, FEB. 9.1982, 15:10 KST, DEPTH 57 , COLOR 5, TRANS. 6.0,
WAVE 3. SWELL 2, WIND NW 3, BARO 1029. , AIR TEMP. DRY 3.2, WET , CLOUD. TYPE AS, AMT 03, WEATHER BC,

0 5.17 32.740 *****
10 5.15 32.720 *****
20 5.05 32.720 *****
30 4.95 32.720 *****
50 5.00 32.740 *****

KOREA ,HAN RA SAN , STATION 308-06 , 36-19.8. N, 125-12.4. E, FEB. 9.1982, 13:30 KST, DEPTH 60 , COLOR 5, TRANS. 8.0,
WAVE 3. SWELL 2, WIND NW 3, BARO 1029. , AIR TEMP. DRY 4.8, WET , CLOUD. TYPE AS, AMT 03, WEATHER BC,

0 5.21 32.680 *****
10 5.21 32.700 *****
20 5.20 32.680 *****
30 5.18 32.700 *****
50 5.10 32.700 *****

KOREA ,HAN RA SAN , STATION 308-07 , 36-19.8. N, 125-00.0. E, FEB. 9.1982, 11:40 KST, DEPTH 67 , COLOR 5, TRANS. 7.0,
WAVE 3. SWELL 2, WIND NW 3, BARO 1030. , AIR TEMP. DRY 4.6, WET , CLOUD. TYPE AS, AMT 05, WEATHER BC,

0 4.90 32.760 *****
10 5.03 32.770 *****
20 5.10 32.680 *****
30 5.06 32.680 *****
50 5.07 32.680 *****

OBSERVED										INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY	
KOREA ,HAN RA SAN , STATION 308-08 , 36-19.8. N, 124-47.5. E, FEB. 9.1982, 09:55 KST, DEPTH 75 , COLOR 4, TRANS. 8.0,																		
WAVE 3, SWELL 2, WIND NW 3, BARO 1031.5, AIR TEMP. DRY 4.5, WET , CLOUD. TYPE NS, AMT 08, WEATHER C ,																		
0	5.12	32.810	*****							0	5.12	32.810	*****	25.95	206	206	0.0000	
10	5.79	32.800	*****							10	5.79	32.800	*****	25.86	214	214	0.0210	
20	5.76	32.790	*****							20	5.76	32.790	*****	25.85	215	215	0.0425	
30	5.80	32.790	*****							30	5.80	32.790	*****	25.85	215	215	0.0640	
50	5.78	32.790	*****							50	5.78	32.790	*****	25.85	215	215	0.1072	
72	5.12	32.760	*****															
KOREA ,HAN RA SAN , STATION 308-09 , 36-19.8. N, 124-35.1. E, FEB. 9.1982, 08:05 KST, DEPTH 83 , COLOR 4, TRANS. 8.0,																		
WAVE 3, SWELL 2, WIND NW 3, BARO 1031. , AIR TEMP. DRY 3.8, WET , CLOUD. TYPE NS, AMT 10, WEATHER C ,																		
0	5.78	32.860	*****							0	5.78	32.860	*****	25.91	210	209	0.0000	
10	5.80	32.900	*****							10	5.80	32.900	*****	25.94	207	207	0.0208	
20	5.85	32.900	*****							20	5.85	32.900	*****	25.93	207	207	0.0416	
30	5.80	32.860	*****							30	5.80	32.860	*****	25.91	210	210	0.0625	
49	5.85	32.810	*****							50	5.84	32.810	*****	25.86	214	214	0.1050	
79	5.75	32.830	*****							75	5.76	32.827	*****	25.88	212	212	0.1585	
KOREA ,HAN RA SAN , STATION 308-10 , 36-19.8. N, 124-23.0. E, FEB. 9.1982, 06:15 KST, DEPTH 80 , COLOR , TRANS. ,																		
WAVE 3, SWELL 2, WIND NW 3, BARO 1031.5, AIR TEMP. DRY 3.0, WET , CLOUD. TYPE NS, AMT 10, WEATHER C ,																		
0	5.71	32.860	*****							0	5.71	32.860	*****	25.92	209	209	0.0000	
10	5.82	32.850	*****							10	5.82	32.850	*****	25.90	211	211	0.0210	
20	5.81	32.850	*****							20	5.81	32.850	*****	25.90	211	211	0.0421	
30	5.85	32.860	*****							30	5.85	32.860	*****	25.90	210	211	0.0632	
50	5.84	32.860	*****							50	5.84	32.860	*****	25.90	210	211	0.1054	
76	5.75	32.850	*****							75	5.75	32.850	*****	25.90	210	211	0.1582	

OBSERVED										INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY	

4月(April)

KOREA ,HAN RA SAN , STATION 308-01 , 36-19.8. N, 126-14.4. E, APR. 8.1982, 07:10 KST, DEPTH 20 , COLOR , TRANS.																	
WAVE 3, SWELL 2, WIND NW 3, BARO 1013.5, AIR TEMP. DRY 8.5, WET , CLOUD. TYPE AS, AMT 03, WEATHER BC,																	
0	7.12	32.560	*****							0	7.12	32.560	*****	25.50	248	248	0.0000
10	5.85	32.540	*****							10	5.85	32.540	*****	25.65	234	234	0.0241
17	5.84	32.540	*****														
KOREA ,HAN RA SAN , STATION 308-02 , 36-19.8. N, 126-02.3. E, APR. 8.1982, 05:30 KST, DEPTH 28 , COLOR , TRANS.																	
WAVE 3, SWELL 2, WIND NW 3, BARO 1013.5, AIR TEMP. DRY 9.0, WET , CLOUD. TYPE AS, AMT 03, WEATHER BC,																	
0	6.01	32.680	*****							0	6.01	32.680	*****	25.74	226	226	0.0000
10	5.12	32.740	*****							10	5.12	32.740	*****	25.89	211	211	0.0218
20	5.52	32.750	*****							20	5.52	32.750	*****	25.85	215	215	0.0432
25	5.50	32.760	*****														
KOREA ,HAN RA SAN , STATION 308-03 , 36-19.8. N, 125-50.0. E, APR. 8.1982, 03:45 KST, DEPTH 52 , COLOR , TRANS.																	
WAVE 3, SWELL 2, WIND NW 3, BARO 1015. , AIR TEMP. DRY 9.0, WET , CLOUD. TYPE , AMT , WEATHER B ,																	
0	6.16	32.630	*****							0	6.16	32.630	*****	25.68	231	231	0.0000
10	5.61	32.660	*****							10	5.61	32.660	*****	25.77	223	223	0.0227
20	5.42	32.640	*****							20	5.42	32.640	*****	25.78	222	222	0.0450
30	5.52	32.640	*****							30	5.52	32.640	*****	25.77	223	223	0.0673
48	5.54	32.760	*****														
KOREA ,HAN RA SAN , STATION 308-04 , 36-19.8. N, 125-37.0. E, APR. 8.1982, 02:05 KST, DEPTH 52 , COLOR , TRANS.																	
WAVE 3, SWELL 2, WIND NW 3, BARO 1016.5, AIR TEMP. DRY 9.0, WET , CLOUD. TYPE , AMT , WEATHER B ,																	
0	6.70	32.860	*****							0	6.70	32.860	*****	25.79	221	220	0.0000
10	6.40	32.880	*****							10	6.40	32.880	*****	25.85	216	215	0.0218

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY
20	6.08	32.880	*****							20	6.08	32.880	*****	25.89	212	212	0.0432
30	5.86	32.880	*****							30	5.86	32.880	*****	25.91	209	209	0.0643
48	5.81	32.880	*****														
KOREA ,HAN RA SAN , STATION 308-05 , 36-19.8. N, 125-25.3. E, APR. 8.1982, 00:20 KST, DEPTH 57 , COLOR , TRANS. ,																	
WAVE 3. SWELL 2, WIND NW 3, BARO 1016. , AIR TEMP. DRY 9.5, WET , CLOUD. TYPE , AMT , WEATHER B ,																	
0	6.90	32.850	*****							0	6.90	32.850	*****	25.76	224	224	0.0000
10	6.37	32.850	*****							10	6.37	32.850	*****	25.83	217	217	0.0220
20	6.03	32.900	*****							20	6.03	32.900	*****	25.91	210	210	0.0434
30	5.72	32.880	*****							30	5.72	32.880	*****	25.93	207	208	0.0643
52	5.71	33.000	*****							50	5.71	32.989	*****	26.02	199	199	0.1051
KOREA ,HAN RA SAN , STATION 308-06 , 36-19.8. N, 125-12.4. E, APR. 7.1982, 22:40 KST, DEPTH 60 , COLOR , TRANS. ,																	
WAVE 2, SWELL 1, WIND NW 2, BARO 1016. , AIR TEMP. DRY 10.0, WET , CLOUD. TYPE , AMT , WEATHER B ,																	
0	6.90	32.940	*****							0	6.90	32.940	*****	25.83	217	217	0.0000
10	6.45	32.940	*****							10	6.45	32.940	*****	25.89	212	211	0.0214
20	5.82	32.950	*****							20	5.82	32.950	*****	25.97	203	203	0.0422
30	5.72	32.950	*****							30	5.72	32.950	*****	25.99	202	202	0.0625
55	5.88	32.950	*****							50	5.84	32.950	*****	25.97	204	204	0.1033
KOREA ,HAN RA SAN , STATION 308-07 , 36-19.8. N, 125-00.0. E, APR. 7.1982, 20:50 KST, DEPTH 68 , COLOR , TRANS. ,																	
WAVE 2, SWELL 1, WIND NW 2, BARO 1016. , AIR TEMP. DRY 11.6, WET , CLOUD. TYPE , AMT , WEATHER B ,																	
0	6.90	32.940	*****							0	6.90	32.940	*****	25.83	217	217	0.0000
10	6.54	32.960	*****							10	6.54	32.960	*****	25.89	211	211	0.0214
20	6.13	32.970	*****							20	6.13	32.970	*****	25.95	206	205	0.0423
30	5.90	32.970	*****							30	5.90	32.970	*****	25.98	203	203	0.0627
50	5.98	33.000	*****							50	5.98	33.000	*****	25.99	202	202	0.1033
63	5.97	33.000	*****														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY
KOREA , HAN RA SAN , STATION 308-08 , 36-19.8. N, 124-47.5. E, APR. 7.1982, 19:05 KST, DEPTH 78 , COLOR 4, TRANS. 7.0, WAVE 2, SWELL 1, WIND NW 2, BARO 1015. , AIR TEMP. DRY 10.0, WET , CLOUD. TYPE , AMT , WEATHER B ,																	
0	7.11	32.970	*****							0	7.11	32.970	*****	25.82	218	217	0.0000
10	7.00	32.970	*****							10	7.00	32.970	*****	25.84	216	216	0.0217
20	6.31	32.970	*****							20	6.31	32.970	*****	25.93	208	208	0.0429
30	6.10	32.970	*****							30	6.10	32.970	*****	25.96	205	205	0.0636
50	5.81	32.970	*****							50	5.81	32.970	*****	25.99	202	202	0.1044
75	6.00	32.970	*****							75	6.00	32.970	*****	25.97	204	205	0.1554
KOREA , HAN RA SAN , STATION 308-09 , 36-19.8. N, 124-35.1. E, APR. 7.1982, 17:10 KST, DEPTH 85 , COLOR 3, TRANS. 8.5, WAVE 2, SWELL 1, WIND NW 2, BARO 1017. , AIR TEMP. DRY 9.3, WET , CLOUD. TYPE , AMT , WEATHER B ,																	
0	7.30	32.950	*****							0	7.30	32.950	*****	25.78	222	221	0.0000
10	7.00	33.070	*****							10	7.00	33.070	*****	25.92	209	209	0.0215
20	6.40	33.120	*****							20	6.40	33.120	*****	26.04	198	198	0.0419
30	6.32	33.120	*****							30	6.32	33.120	*****	26.05	197	197	0.0616
50	6.13	33.100	*****							50	6.13	33.100	*****	26.05	196	196	0.1010
80	6.00	33.010	*****							75	6.02	33.025	*****	26.01	200	201	0.1507
KOREA , HAN RA SAN , STATION 308-10 , 36-19.8. N, 124-23.0. E, APR. 7.1982, 15:20 KST, DEPTH 83 , COLOR 3, TRANS. 7.0, WAVE 1, SWELL 1, WIND W 1, BARO 1017.2, AIR TEMP. DRY 12.5, WET , CLOUD. TYPE , AMT , WEATHER B ,																	
0	7.40	32.970	*****							0	7.40	32.970	*****	25.78	221	221	0.0000
10	6.61	33.030	*****							10	6.61	33.030	*****	25.94	207	207	0.0214
20	6.09	33.010	*****							20	6.09	33.010	*****	25.99	202	202	0.0419
30	6.30	33.010	*****							30	6.30	33.010	*****	25.96	205	205	0.0623
50	5.92	33.010	*****							50	5.92	33.010	*****	26.01	200	200	0.1029
80	6.20	32.880	*****							75	6.15	32.901	*****	25.89	211	211	0.1545

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY

6 月(June)

KOREA ,HAN RA SAN , STATION 308-01 , 36-19.8. N, 126-14.4. E, JUN. 6.1982, 21:05 KST, DEPTH 21 , COLOR , TRANS. ,																	
WAVE 1, SWELL 1, WIND NE 1, BARO 1014. , AIR TEMP. DRY 16.5, WET , CLOUD. TYPE AS, AMT 10, WEATHER F ,																	
0	14.01	32.390	*****							0	14.01	32.390	*****	24.19	373	373	0.0000
10	12.64	32.480	*****							10	12.64	32.480	*****	24.53	341	341	0.0357
18	12.57	32.480	*****														
KOREA ,HAN RA SAN , STATION 308-02 , 36-19.8. N, 126-02.3. E, JUN. 6.1982, 19:25 KST, DEPTH 30 , COLOR 4, TRANS. 6.0,																	
WAVE 1, SWELL 1, WIND NE 1, BARO 1013. , AIR TEMP. DRY 17.0, WET , CLOUD. TYPE AS, AMT 10, WEATHER F ,																	
0	13.74	32.390	*****							0	13.74	32.390	*****	24.24	368	368	0.0000
10	13.31	32.390	*****							10	13.31	32.390	*****	24.33	360	360	0.0364
20	13.00	32.430	*****							20	13.00	32.430	*****	24.42	351	351	0.0720
27	12.50	32.450	*****														
KOREA ,HAN RA SAN , STATION 308-03 , 36-19.8. N, 125-50.0. E, JUN. 6.1982, 17:40 KST, DEPTH 52 , COLOR 4, TRANS. 6.0,																	
WAVE 1, SWELL 1, WIND NE 1, BARO 1013.5, AIR TEMP. DRY 17.2, WET , CLOUD. TYPE AS, AMT 10, WEATHER F ,																	
0	17.40	32.500	*****							0	17.40	32.500	*****	23.52	437	437	0.0000
10	14.28	32.740	*****							10	14.28	32.740	*****	24.40	353	353	0.0395
20	10.15	32.770	*****							20	10.15	32.770	*****	25.20	277	277	0.0710
30	9.14	32.770	*****							30	9.14	32.770	*****	25.37	261	261	0.0980
48	9.06	32.770	*****														
KOREA ,HAN RA SAN , STATION 308-04 , 36-19.8. N, 125-37.0. E, JUN. 6.1982, 16:00 KST, DEPTH 53 , COLOR 4, TRANS. 7.0,																	
WAVE 1, SWELL 1, WIND NE 1, BARO 1016. , AIR TEMP. DRY 18.1, WET , CLOUD. TYPE AS, AMT 07, WEATHER BC,																	
0	18.12	32.520	*****							0	18.12	32.520	*****	23.36	452	452	0.0000
10	17.24	32.600	*****							10	17.24	32.600	*****	23.63	426	426	0.0439

OBSERVED							INTERPOLATED							CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

20	14.23	32.740	*****							20	14.23	32.740	*****	24.41	352	352	0.0829
30	9.24	32.770	*****							30	9.24	32.770	*****	25.35	262	263	0.1137
50	8.61	32.810	*****							50	8.61	32.810	*****	25.48	250	251	0.1651

KOREA ,HAN RA SAN , STATION 308-05 , 36-19.8. N, 125-25.3. E, JUN. 6.1982, 14:15 KST, DEPTH 55 , COLOR 4, TRANS. 7.0,

WAVE 1, SWELL 1, WIND NE 1, BARO 1014. , AIR TEMP. DRY 20.1, WET , CLOUD. TYPE , AMT 00, WEATHER F ,

0	18.11	32.410	*****							0	18.11	32.410	*****	23.28	460	460	0.0000
10	16.71	32.470	*****							10	16.71	32.470	*****	23.66	424	424	0.0442
20	9.89	32.590	*****							20	9.89	32.590	*****	25.11	286	286	0.0797
30	7.98	32.830	*****							30	7.98	32.830	*****	25.59	240	240	0.1060
50	7.97	32.830	*****							50	7.97	32.830	*****	25.59	240	240	0.1541

KOREA ,HAN RA SAN , STATION 308-06 , 36-19.8. N, 125-12.4. E, JUN. 6.1982, 12:25 KST, DEPTH 60 , COLOR 4, TRANS. 7.0,

WAVE 1, SWELL 1, WIND E 1, BARO 1015. , AIR TEMP. DRY 19.9, WET , CLOUD. TYPE , AMT 00, WEATHER B ,

0	18.15	32.430	*****							0	18.15	32.430	*****	23.29	459	459	0.0000
10	14.91	32.770	*****							10	14.91	32.770	*****	24.29	364	364	0.0411
20	8.20	32.860	*****							20	8.20	32.860	*****	25.58	241	241	0.0714
30	7.54	32.860	*****							30	7.54	32.860	*****	25.68	232	232	0.0951
55	7.51	32.860	*****							50	7.51	32.860	*****	25.68	231	232	0.1415

KOREA ,HAN RA SAN , STATION 308-07 , 36-19.8. N, 125-00.0. E, JUN. 6.1982, 10:45 KST, DEPTH 70 , COLOR 4, TRANS. 8.0,

WAVE 1, SWELL 1, WIND SE 1, BARO 1013. , AIR TEMP. DRY 19.2, WET , CLOUD. TYPE , AMT 00, WEATHER B ,

0	17.80	32.320	*****							0	17.80	32.320	*****	23.29	459	459	0.0000
10	14.30	32.680	*****							10	14.30	32.680	*****	24.35	358	358	0.0408
20	11.35	32.810	*****							20	11.35	32.810	*****	25.03	294	294	0.0735
30	6.83	32.880	*****							30	6.83	32.880	*****	25.79	221	221	0.0992
50	6.77	32.900	*****							50	6.77	32.900	*****	25.81	219	219	0.1433

OBSERVED										INTERPOLATED				CALCULATED		
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	D-DY
KOREA , HAN RA SAN , STATION 308-08 , 36-19.8. N, 124-47.5. E, JUN. 6.1982, 09:00 KST, DEPTH 77 , COLOR 3, TRANS. 9.0,																
WAVE 1, SWELL 1, WIND SE 1, BARO 1013.5, AIR TEMP. DRY 18.3, WET , CLOUD. TYPE AS, AMT 05, WEATHER BC,																
0	17.29	*****	*****							0	17.29	*****	*****	*****	***	*****
10	14.31	32.770	*****							10	14.31	32.770	*****	24.42	351	*****
20	12.75	32.740	*****							20	17.75	32.740	*****	24.71	324	*****
30	6.64	32.920	*****							30	6.64	32.920	*****	25.85	215	*****
50	6.70	32.920	*****							50	6.70	32.920	*****	25.84	216	*****
73	6.79	32.940	*****													
KOREA , HAN RA SAN , STATION 308-09 , 36-19.8. N, 124-35.1. E, JUN. 6.1982, 07:10 KST, DEPTH 83 , COLOR 3, TRANS. 10.0,																
WAVE 1, SWELL 1, WIND SE 1, BARO 1015. , AIR TEMP. DRY 17.2, WET , CLOUD. TYPE , AMT 00, WEATHER F ,																
0	17.45	32.740	*****							0	17.45	32.740	*****	23.69	421	0.0000
10	16.03	32.770	*****							10	16.03	32.770	*****	24.04	387	0.0404
20	12.05	32.810	*****							20	12.05	32.810	*****	24.90	306	0.0751
30	6.57	32.880	*****							30	6.57	32.880	*****	25.82	218	0.1013
50	6.42	32.940	*****							50	6.42	32.940	*****	25.89	211	0.1443
80	6.46	32.940	*****							75	6.45	32.940	*****	25.89	212	0.1974
KOREA , HAN RA SAN , STATION 308-10 , 36-19.8. N, 124-23.0. E, JUN. 6.1982, 05:25 KST, DEPTH 81 , COLOR , TRANS. ,																
WAVE 1, SWELL 1, WIND SE 1, BARO 1014. , AIR TEMP. DRY 17.0, WET , CLOUD. TYPE CI, AMT 02, WEATHER B ,																
0	16.53	32.680	*****							0	16.53	32.680	*****	23.86	405	0.0000
10	13.80	32.810	*****							10	13.80	32.810	*****	24.55	339	0.0371
20	11.50	32.810	*****							20	11.50	32.810	*****	25.00	296	0.0689
30	6.38	32.900	*****							30	6.38	32.900	*****	25.86	214	0.0945
50	6.46	32.920	*****							50	6.46	32.920	*****	25.87	213	0.1373
75	6.50	32.920	*****							75	6.50	32.920	*****	25.87	214	0.1909

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY

8月(August)

KOREA ,HAN RA SAN , STATION 308-01 , 36-19.8. N, 126-14.4. E, AUG. 9.1982, 17:30 KST, DEPTH 20 , COLOR 7, TRANS. 5.0,

WAVE 1, SWELL 1, WIND SW 1, BARO 1012. , AIR TEMP. DRY 27.4, WET , CLOUD. TYPE CI, AMT 03, WEATHER BC,

0 24.21 31.890 ***** 0 24.21 31.890 ***** 21.25 654 654 0.0000

10 22.60 32.140 ***** 10 22.60 32.140 ***** 21.90 592 592 0.0623

17 21.55 32.160 *****

KOREA ,HAN RA SAN , STATION 308-02 , 36-19.8. N, 126-02.3. E, AUG. 9.1982, 17:55 KST, DEPTH 29 , COLOR 6, TRANS. 6.0,

WAVE 1, SWELL 1, WIND SW 2, BARO 1012.5, AIR TEMP. DRY 28.7, WET , CLOUD. TYPE CI, AMT 01, WEATHER B ,

0 22.18 32.160 ***** 0 22.18 32.160 ***** 22.03 579 579 0.0000

10 21.20 32.180 ***** 10 21.20 32.180 ***** 22.32 552 552 0.0566

20 20.23 32.250 ***** 20 20.23 32.250 ***** 22.63 523 523 0.1104

25 19.23 32.360 *****

KOREA ,HAN RA SAN , STATION 308-03 , 36-19.8. N, 125-50.0. E, AUG. 9.1982, 16:15 KST, DEPTH 49 , COLOR 6, TRANS. 7.0,

WAVE 1, SWELL 1, WIND SW 2, BARO 1012. , AIR TEMP. DRY 25.3, WET , CLOUD. TYPE CI, AMT 01, WEATHER B ,

0 25.39 32.160 ***** 0 25.39 32.160 ***** 21.10 669 668 0.0000

10 20.03 32.140 ***** 10 20.03 32.140 ***** 22.59 526 526 0.0597

20 18.45 32.560 ***** 20 18.45 32.560 ***** 23.31 457 457 0.1089

30 18.83 32.610 ***** 30 18.83 32.610 ***** 23.26 462 463 0.1549

45 14.34 32.680 *****

KOREA ,HAN RA SAN , STATION 308-04 , 36-19.8. N, 125-37.0. E, AUG. 9.1982, 14:35 KST, DEPTH 50 , COLOR 6, TRANS. 7.0,

WAVE 2, SWELL 1, WIND SW 2, BARO 1011.5, AIR TEMP. DRY 28.0, WET , CLOUD. TYPE CI, AMT 01, WEATHER B ,

0 26.53 32.180 ***** 0 26.53 32.180 ***** 20.76 701 701 0.0000

10 24.73 32.140 ***** 10 24.73 32.140 ***** 21.28 651 651 0.0676

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY
20	18.83	32.470	*****							20	18.83	32.470	*****	23.15	472	473	0.1238
30	11.96	32.470	*****							30	11.96	32.470	*****	24.65	329	330	0.1640
45	11.34	32.610	*****														
KOREA ,HAN RA SAN , STATION 308-05 , 36-19.8. N, 125-25.3. E, AUG. 9.1982, 12:50 KST, DEPTH 51 , COLOR 5, TRANS. B.O,																	
WAVE 2, SWELL 1, WIND SW 2, BARO 1011. , AIR TEMP. DRY 27.9, WET , CLOUD. TYPE C1, AMT 01, WEATHER B ,																	
0	26.59	32.160	*****							0	26.59	32.160	*****	20.73	704	704	0.0000
10	25.91	32.140	*****							10	25.91	32.140	*****	20.93	685	685	0.0695
20	13.17	32.650	*****							20	13.17	32.650	*****	24.56	338	338	0.1207
30	10.89	32.700	*****							30	10.89	32.700	*****	25.02	294	294	0.1524
47	10.95	32.730	*****														
KOREA ,HAN RA SAN , STATION 308-06 , 36-19.8. N, 125-12.4. E, AUG. 9.1982, 11:10 KST, DEPTH 58 , COLOR 5, TRANS. B.O,																	
WAVE 2, SWELL 1, WIND SW 2, BARO 1012. , AIR TEMP. DRY 26.2, WET , CLOUD. TYPE C1, AMT 02, WEATHER B ,																	
0	26.95	32.160	*****							0	26.95	32.180	*****	20.63	714	713	0.0000
10	25.80	32.140	*****							10	25.80	32.140	*****	20.96	682	682	0.0698
20	13.87	32.470	*****							20	13.87	32.470	*****	24.28	365	365	0.1222
30	10.30	32.610	*****							30	10.30	32.610	*****	25.05	291	291	0.1550
53	9.72	32.740	*****							50	9.79	32.723	*****	25.23	274	275	0.2118
KOREA ,HAN RA SAN , STATION 308-07 , 36-19.8. N, 125-00.0. E, AUG. 9.1982, 09:25 KST, DEPTH 66 , COLOR 4, TRANS. 9.5,																	
WAVE 3, SWELL 2, WIND S 3, BARO 1012. , AIR TEMP. DRY 25.9, WET , CLOUD. TYPE C1, AMT 03, WEATHER BC,																	
0	26.72	32.270	*****							0	26.72	32.270	*****	20.77	700	700	0.0000
10	26.62	32.390	*****							10	26.62	32.390	*****	20.89	688	689	0.0694
20	16.46	32.770	*****							20	16.46	32.770	*****	23.95	396	397	0.1237
30	12.51	32.770	*****							30	12.51	32.770	*****	24.78	317	317	0.1595

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

50 9.84 33.040 *****
62 9.31 33.110 *****

KOREA ,HAN RA SAN , STATION 308-08 , 36-19.8. N, 124-47.5. E, AUG. 9.1982, 07:40 KST, DEPTH 75 , COLOR , TRANS. ,
WAVE 3, SWELL 2, WIND S 4, BARO 1011.5, AIR TEMP. DRY 25.7, WET , CLOUD. TYPE CI, AMT 04, WEATHER BC,
0 26.80 32.320 ***** 0 26.80 32.320 ***** 20.78 699 699 0.0000
10 26.00 32.570 ***** 10 26.00 32.570 ***** 21.22 657 657 0.0678
20 11.75 32.700 ***** 20 11.75 32.700 ***** 24.87 309 309 0.1161
30 11.38 32.790 ***** 30 11.38 32.790 ***** 25.00 296 296 0.1464
50 9.55 33.040 ***** 50 9.55 33.040 ***** 25.51 247 248 0.2009
70 9.49 33.130 *****

KOREA ,HAN RA SAN , STATION 308-09 , 36-19.8. N, 124-35.1. E, AUG. 9.1982, 05:50 KST, DEPTH 82 , COLOR , TRANS. ,
WAVE 3, SWELL 2, WIND S 4, BARO 1011. , AIR TEMP. DRY 25.8, WET , CLOUD. TYPE CI, AMT 04, WEATHER BC,
0 26.97 32.430 ***** 0 26.97 32.430 ***** 20.81 696 696 0.0000
10 26.24 32.410 ***** 10 26.24 32.410 ***** 21.03 676 676 0.0686
20 23.80 32.650 ***** 20 23.80 32.650 ***** 21.94 588 588 0.1318
30 13.02 32.740 ***** 30 13.02 32.740 ***** 24.66 329 329 0.1777
50 9.63 33.030 ***** 50 9.63 33.030 ***** 25.49 249 250 0.2357
77 8.78 33.150 ***** 75 8.84 33.141 ***** 25.70 229 230 0.2958

KOREA ,HAN RA SAN , STATION 308-10 , 36-19.8. N, 124-23.0. E, AUG. 9.1982, 04:00 KST, DEPTH 80 , COLOR , TRANS. ,
WAVE 4, SWELL 3, WIND SW 4, BARO 1012. , AIR TEMP. DRY 26.0, WET , CLOUD. TYPE AS, AMT 10, WEATHER C ,
0 26.94 32.340 ***** 0 26.94 32.340 ***** 20.75 702 701 0.0000
10 26.84 32.340 ***** 10 26.84 32.340 ***** 20.79 699 699 0.0700
20 23.94 32.340 ***** 20 23.94 32.340 ***** 21.67 614 615 0.1357
30 12.09 32.390 ***** 30 12.89 32.390 ***** 24.41 352 352 0.1841

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY

50 9.01 32.610 *****
75 8.51 33.030 *****

10月(October)

KOREA ,HAN RA SAN . STATION 308-01 . 36-19.8. N, 126-14.4. E, OCT. 8.1982, 03:45 KST, DEPTH 22 , COLOR , TRANS. ,
WAVE 2, SWELL 1, WIND N 2, BARO 1017.5, AIR TEMP. DRY 20.8, WET , CLOUD. TYPE , AMT 00, WEATHER B ,
0 20.11 32.790 5.35 0 20.11 32.790 5.35 23.07 480 480 0.0000
10 20.07 32.880 5.19 10 20.07 32.880 5.19 23.15 473 473 0.0476
15 19.85 32.980 5.14

KOREA ,HAN RA SAN . STATION 308-02 . 36-19.8. N, 126-02.3. E, OCT. 8.1982, 02:05 KST, DEPTH 28 , COLOR , TRANS. ,
WAVE 1, SWELL , WIND NW 1, BARO 1018. , AIR TEMP. DRY 20.3, WET , CLOUD. TYPE , AMT 00, WEATHER B ,
0 20.19 32.860 5.45 0 20.19 32.860 5.45 23.10 477 477 0.0000
10 19.62 32.850 5.18 10 19.62 32.850 5.18 23.24 464 464 0.0470
20 19.51 32.850 4.96 20 19.51 32.850 4.96 23.27 461 461 0.0934
25 19.45 32.900 5.00

KOREA ,HAN RA SAN . STATION 308-03 . 36-19.8. N, 125-50.0. E, OCT. 8.1982, 00:20 KST, DEPTH 49 , COLOR , TRANS. ,
WAVE 1, SWELL , WIND NW 1, BARO 1017. , AIR TEMP. DRY 20.1, WET , CLOUD. TYPE , AMT 00, WEATHER B ,
0 20.51 32.680 5.40 0 20.51 32.680 5.40 22.88 498 498 0.0000
10 20.30 32.680 5.29 10 20.30 32.680 5.29 22.93 493 493 0.0496
20 20.24 32.760 5.29 20 20.24 32.760 5.29 23.01 486 486 0.0986
30 18.64 32.790 5.19 30 18.64 32.790 5.19 23.44 445 445 0.1452
45 18.60 33.010 4.98

OBSERVED										INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY	

KOREA ,HAN RA SAN , STATION 308-04 , 36-19.8. N, 125-37.0. E, OCT. 7.1982, 22:40 KST, DEPTH 52 , COLOR , TRANS. ,
 WAVE 1, SWELL , WIND NW 1, BARO 1018. , AIR TEMP. DRY 20.1, WET , CLOUD. TYPE , AMT , WEATHER B ,
 0 20.73 32.590 5.40 0 20.73 32.590 5.40 22.75 510 510 0.0000
 10 20.38 32.650 5.30 10 20.38 32.650 5.30 22.89 497 497 0.0504
 20 18.23 32.900 5.16 20 18.23 32.900 5.16 23.63 427 427 0.0966
 30 17.94 33.060 5.13 30 17.94 33.060 5.13 23.82 409 409 0.1389
 48 17.92 33.100 5.08

KOREA ,HAN RA SAN , STATION 308-05 , 36-19.8. N, 125-25.3. E, OCT. 7.1982, 20:55 KST, DEPTH 52 , COLOR , TRANS. ,
 WAVE 1, SWELL , WIND NW 1, BARO 1018.5, AIR TEMP. DRY 20.2, WET , CLOUD. TYPE , AMT 00, WEATHER B ,
 0 20.79 32.660 5.35 0 20.79 32.660 5.35 22.79 507 507 0.0000
 10 20.78 32.660 5.36 10 20.78 32.660 5.36 22.79 507 507 0.0507
 20 19.52 32.790 5.36 20 19.52 32.790 5.36 23.22 466 466 0.0994
 30 18.40 33.040 5.09 30 18.40 33.040 5.09 23.69 421 421 0.1438
 48 16.39 33.040 5.07

KOREA ,HAN RA SAN , STATION 308-06 , 36-19.8. N, 125-12.4. E, OCT. 7.1982, 19:10 KST, DEPTH 58 , COLOR , TRANS. ,
 WAVE 1, SWELL , WIND NW 1, BARO 1018. , AIR TEMP. DRY 20.8, WET , CLOUD. TYPE , AMT 00, WEATHER B ,
 0 21.77 32.480 5.61 0 21.77 32.480 5.61 22.39 545 545 0.0000
 10 21.72 32.450 5.41 10 21.72 32.450 5.41 22.38 546 546 0.0546
 20 20.92 32.720 5.22 20 20.92 32.720 5.22 22.80 506 506 0.1072
 30 18.45 33.040 5.19 30 18.45 33.040 5.19 23.68 422 422 0.1537
 53 15.21 33.100 5.06 50 15.63 33.092 5.07 24.38 353 356 0.2317

KOREA ,HAN RA SAN , STATION 308-07 , 36-19.8. N, 125-00.0. E, OCT. 7.1982, 17:20 KST, DEPTH 68 , COLOR 4, TRANS. 12.0,
 WAVE 1, SWELL , WIND NW 1, BARO 1017. , AIR TEMP. DRY 21.0, WET , CLOUD. TYPE , AMT 00, WEATHER B ,
 0 21.95 32.250 5.71 0 21.95 32.250 5.71 22.16 567 566 0.0000

OBSERVED										INTERPOLATED					CALCULATED		
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY
10	21.02	32.230	5.40							10	21.02	32.230	5.40	22.40	544	544	0.0555
20	20.04	32.250	5.18							20	20.04	32.250	5.18	22.67	518	518	0.1087
30	19.13	32.340	5.00							30	19.13	32.340	5.00	22.98	489	490	0.1591
50	14.70	32.620	4.89							50	14.70	32.620	4.89	24.22	370	371	0.2453
63	14.59	33.120	4.82														
KOREA , HAN RA SAN , STATION 308-08 , 36-19.8. N, 124-47.5. E, OCT. 7.1982, 15:35 KST, DEPTH 76 , COLOR 4, TRANS. 12.0,																	
WAVE 1, SWELL , WIND W 1, BARO 1018.5, AIR TEMP. DRY 0.0, WET 20.5, CLOUD. TYPE , AMT , WEATHER B ,																	
0	22.04	32.300	5.69							0	22.04	32.300	5.69	22.18	565	565	0.0000
10	22.04	32.360	5.29							10	22.04	32.360	5.29	22.22	561	561	0.0563
20	21.85	32.430	5.10							20	21.85	32.430	5.10	22.33	551	551	0.1120
30	19.43	32.410	5.09							30	19.43	32.410	5.09	22.95	491	492	0.1642
50	13.61	33.080	4.71							50	13.61	33.080	4.71	24.80	315	316	0.2451
72	12.88	33.120	4.68														
KOREA , HAN RA SAN , STATION 308-09 , 36-19.8. N, 124-35.1. E, OCT. 7.1982, 13:45 KST, DEPTH 84 , COLOR 4, TRANS. 13.0,																	
WAVE 1, SWELL , WIND NW 1, BARO 1019. , AIR TEMP. DRY 22.0, WET , CLOUD. TYPE , AMT 00, WEATHER B ,																	
0	22.22	32.300	5.49							0	22.22	32.300	5.49	22.13	570	570	0.0000
10	21.85	32.340	4.90							10	21.85	32.340	4.90	22.26	558	558	0.0564
20	21.60	32.340	4.88							20	21.60	32.340	4.88	22.33	551	551	0.1119
30	20.03	32.540	4.78							30	20.03	32.540	4.78	22.90	497	497	0.1643
50	11.16	33.040	4.80							50	11.16	33.040	4.80	25.24	273	274	0.2416
80	10.87	33.080	4.71							75	10.91	33.073	4.72	25.31	267	268	0.3094
KOREA , HAN RA SAN , STATION 308-10 , 36-19.8. N, 124-23.0. E, OCT. 7.1982, 11:55 KST, DEPTH 81 , COLOR 3, TRANS. 14.0,																	
WAVE 1, SWELL , WIND NW 1, BARO 1019.5, AIR TEMP. DRY 21.0, WET , CLOUD. TYPE , AMT 00, WEATHER B ,																	
0	22.73	32.330	5.48							0	22.73	32.330	5.48	22.12	571	571	0.0000

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY
10	22.33	32.380	4.94							10	22.33	32.380	4.94	22.16	567	567	0.0569
20	21.03	32.450	4.96							20	21.03	32.450	4.96	22.57	528	529	0.1118
30	20.06	32.590	4.91							30	20.06	32.590	4.91	22.93	494	494	0.1629
50	11.50	33.040	4.80							50	11.50	33.040	4.80	25.18	279	280	0.2405
75	10.89	33.010	4.69							75	10.89	33.010	4.69	25.36	271	272	0.3096

12月(December)

KOREA , HAN RA SAN , STATION 308-01 , 36-19.8. N, 126-14.4. E, DEC.15.1982, 07:25 KST, DEPTH 20 , COLOR , TRANS. ,
 WAVE 3, SWELL 2, WIND SE 3, BARO 1021.5, AIR TEMP. DRY 7.3, WET , CLOUD. TYPE AS, AMT 09, WEATHER C ,

0	10.74	32.300	6.01							0	10.74	32.300	6.01	24.74	321	321	0.0000
10	10.96	32.320	5.99							10	10.96	32.320	5.99	24.71	323	323	0.0322
17	10.88	32.360	5.61														

KOREA , HAN RA SAN , STATION 308-02 , 36-19.8. N, 126-02.3. E, DEC.15.1982, 05:50 KST, DEPTH 28 , COLOR , TRANS. ,
 WAVE 2, SWELL 1, WIND SE 3, BARO 1021. , AIR TEMP. DRY 11.0, WET , CLOUD. TYPE AS, AMT 10, WEATHER C ,

0	12.75	32.430	5.89							0	12.75	32.430	5.89	24.47	347	346	0.0000
10	12.91	32.430	5.83							10	12.91	32.430	5.83	24.44	349	349	0.0348
20	12.84	32.460	5.81							20	12.84	32.460	5.81	24.48	346	346	0.0696
25	12.82	32.450	5.73														

KOREA , HAN RA SAN , STATION 308-03 , 36-19.8. N, 125-50.0. E, DEC.15.1982, 04:05 KST, DEPTH 49 , COLOR , TRANS. ,
 WAVE 2, SWELL 1, WIND SE 3, BARO 1022. , AIR TEMP. DRY 10.8, WET , CLOUD. TYPE AS, AMT 07, WEATHER BC,

0	12.77	32.470	6.01							0	12.77	32.470	6.01	24.50	344	344	0.0000
10	12.77	32.450	5.99							10	12.77	32.450	5.99	24.48	345	345	0.0344
20	12.77	32.450	5.99							20	12.77	32.450	5.99	24.48	345	346	0.0690
30	12.83	32.450	5.96							30	12.83	32.450	5.96	24.47	347	347	0.1037

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY
KOREA ,HAN RA SAN , STATION 308-04 , 36-19.8. N, 125-37.0. E, DEC.11.1982, 14:50 KST, DEPTH 50 , COLOR 7, TRANS. 4.0,																	
WAVE 3, SWELL 2, WIND NE 3, BARO 1021. , AIR TEMP. DRY 10.5, WET , CLOUD. TYPE AS, AMT 10, WEATHER C ,																	
0	12.41	32.470	5.39							0	12.41	32.470	5.39	24.57	337	337	0.0000
10	12.51	32.470	5.27							10	12.51	32.470	5.27	24.55	339	339	0.0338
20	12.47	32.480	5.21							20	12.47	32.480	5.21	24.56	338	338	0.0677
30	12.39	32.480	4.91							30	12.39	32.480	4.91	24.58	336	337	0.1015
45	12.35	32.480	5.01														
KOREA ,HAN RA SAN , STATION 308-05 , 36-19.8. N, 125-25.3. E, DEC.11.1982, 13:05 KST, DEPTH 52 , COLOR 6, TRANS. 4.0,																	
WAVE 3, SWELL 2, WIND NE 4, BARO 1022. , AIR TEMP. DRY 8.4, WET , CLOUD. TYPE AS, AMT 08, WEATHER C ,																	
0	12.30	32.460	5.30							0	12.30	32.460	5.30	24.58	336	336	0.0000
10	12.32	32.470	5.38							10	12.32	32.470	5.38	24.58	336	336	0.0336
20	12.42	32.480	5.41							20	12.42	32.480	5.41	24.57	337	337	0.0673
30	12.44	32.480	5.16							30	12.44	32.480	5.16	24.57	337	338	0.1010
48	12.33	32.500	5.11														
KOREA ,HAN RA SAN , STATION 308-06 , 36-19.8. N, 125-12.4. E, DEC.11.1982, 11:25 KST, DEPTH 58 , COLOR 6, TRANS. 4.0,																	
WAVE 3, SWELL 2, WIND NE 4, BARO 1020. , AIR TEMP. DRY 8.2, WET , CLOUD. TYPE AS, AMT 09, WEATHER C ,																	
0	11.31	32.500	5.47							0	11.31	32.500	5.47	24.79	316	315	0.0000
10	11.89	32.520	5.41							10	11.89	32.520	5.41	24.70	324	324	0.0320
20	11.99	32.540	5.41							20	11.99	32.540	5.41	24.70	325	325	0.0645
30	12.01	32.590	5.22							30	12.01	32.590	5.22	24.73	321	322	0.0969
55	12.02	32.580	5.11							50	12.01	32.582	5.13	24.73	322	323	0.1614
KOREA ,HAN RA SAN , STATION 308-07 , 36-19.8. N, 125-00.0. E, DEC.11.1982, 09:40 KST, DEPTH 68 , COLOR 5, TRANS. 4.8,																	
WAVE 3, SWELL 2, WIND NE 4, BARO 1019. , AIR TEMP. DRY 8.0, WET , CLOUD. TYPE AS, AMT 08, WEATHER C ,																	
0	11.90	32.500	5.82							0	11.90	32.500	5.82	24.68	326	326	0.0000

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	O-T	SVA	D-DY

10	11.78	32.500	5.80							10	11.78	32.500	5.80	24.71	324	324	0.0325
20	11.73	32.500	5.81							20	11.73	32.500	5.81	24.72	323	323	0.0649
30	11.81	32.500	5.60							30	11.81	32.500	5.60	24.70	324	325	0.0973
50	11.83	32.520	5.60							50	11.83	32.520	5.60	24.71	323	324	0.1623
63	10.64	32.520	5.25														

KOREA , HAN RA SAN , STATION 308-08 , 36-19.8. N, 124-47.5. E, DEC.11.1982, 08:00 KST, DEPTH 76 , COLOR 5, TRANS. 5.0,
 WAVE 3, SWELL 2, WIND E 4, BARO 1018. , AIR TEMP. DRY 8.2, WET , CLOUD. TYPE AS, AMT 10, WEATHER R ,
 0 11.77 32.430 5.83 0 11.77 32.430 5.83 24.65 329 329 0.0000
 10 11.65 32.430 5.81 10 11.65 32.430 5.81 24.68 327 327 0.0328
 20 11.65 32.480 5.79 20 11.65 32.480 5.79 24.72 323 323 0.0653
 30 11.71 32.480 5.84 30 11.71 32.480 5.84 24.70 324 324 0.0977
 50 10.43 32.480 5.80 50 10.43 32.480 5.80 24.93 303 303 0.1606
 71 8.26 32.540 5.51

KOREA , HAN RA SAN , STATION 308-09 , 36-19.8. N, 124-35.1. E, DEC.11.1982, 06:10 KST, DEPTH 84 , COLOR , TRANS. ,
 WAVE 3, SWELL 2, WIND SE 3, BARO 1021. , AIR TEMP. DRY 9.0, WET , CLOUD. TYPE AS, AMT 10, WEATHER R ,
 0 11.64 32.520 5.71 0 11.64 32.520 5.71 24.75 320 320 0.0000
 10 11.64 32.500 5.83 10 11.64 32.500 5.83 24.73 321 321 0.0321
 20 11.62 32.520 5.92 20 11.62 32.520 5.92 24.75 320 320 0.0642
 30 11.58 32.540 5.92 30 11.58 32.540 5.92 24.77 317 318 0.0961
 50 10.75 32.520 5.81 50 10.75 32.520 5.81 24.91 305 306 0.1585
 80 7.47 32.530 5.61 75 8.01 32.528 5.64 25.35 263 264 0.2298

KOREA , HAN RA SAN , STATION 308-10 , 36-19.8. N, 124-23.0. E, DEC.11.1982, 04:25 KST, DEPTH 81 , COLOR , TRANS. ,
 WAVE 3, SWELL 2, WIND SE 3, BARO 1021.5, AIR TEMP. DRY 9.0, WET , CLOUD. TYPE AS, AMT 10, WEATHER R ,
 0 11.61 32.390 6.31 0 11.61 32.390 6.31 24.65 329 329 0.0000

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY
10	11.55	32.440	6.26							10	11.55	32.440	6.26	24.70	324	324	0.0326
20	11.50	32.480	5.81							20	11.50	32.480	5.81	24.74	321	321	0.0649
30	11.43	32.530	5.91							30	11.43	32.530	5.91	24.79	316	316	0.0968
50	7.21	32.610	5.91							50	7.21	32.610	5.91	25.53	246	246	0.1531
75	7.17	32.760	5.51							75	7.17	32.760	5.51	25.65	234	235	0.2134

309線 海洋觀測 成績

Oceanographic Data. Line 309

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY

2月(February)

KOREA , HAN RA SAN , STATION 309-01 , 35-51.3. N, 126-14.7. E, FEB.10.1982, 02:00 KST, DEPTH 30 , COLOR , TRANS. ,
 WAVE 4, SWELL 3, WIND NW 5, BARO 1032. , AIR TEMP. DRY - 1.0, WET , CLOUD. TYPE AS, AMT 03, WEATHER BC,
 0 3.88 32.560 ***** 0 3.88 32.560 ***** 25.88 213 212 0.0000
 10 3.80 32.560 ***** 10 3.80 32.560 ***** 25.89 212 212 0.0212
 20 3.90 32.560 ***** 20 3.90 32.560 ***** 25.88 213 213 0.0425
 27 3.90 32.560 *****

KOREA , HAN RA SAN , STATION 309-02 , 35-51.3. N, 126-02.0. E, FEB.10.1982, 03:40 KST, DEPTH 46 , COLOR , TRANS. ,
 WAVE 4, SWELL 3, WIND NW 5, BARO 1032.5, AIR TEMP. DRY - 1.5, WET , CLOUD. TYPE AS, AMT 03, WEATHER BC,
 0 4.15 32.570 ***** 0 4.15 32.570 ***** 25.86 214 214 0.0000
 10 4.25 32.570 ***** 10 4.25 32.570 ***** 25.85 215 215 0.0215
 20 4.22 32.590 ***** 20 4.22 32.590 ***** 25.87 214 213 0.0429
 30 4.15 32.650 ***** 30 4.15 32.650 ***** 25.92 208 208 0.0641
 43 4.00 32.650 *****

KOREA , HAN RA SAN , STATION 309-03 , 35-51.3. N, 125-49.3. E, FEB.11.1982, 01:05 KST, DEPTH 55 , COLOR , TRANS. ,
 WAVE 2, SWELL 1, WIND NW 2, BARO 1032. , AIR TEMP. DRY 1.0, WET , CLOUD. TYPE AS, AMT 03, WEATHER BC,
 0 4.56 32.740 ***** 0 4.56 32.740 ***** 25.95 206 205 0.0000
 10 4.45 32.760 ***** 10 4.45 32.760 ***** 25.98 203 203 0.0204
 20 4.60 32.780 ***** 20 4.60 32.780 ***** 25.98 203 203 0.0407
 30 4.65 32.780 ***** 30 4.65 32.780 ***** 25.97 203 203 0.0611
 52 4.55 32.790 ***** 50 4.55 32.789 ***** 25.99 202 202 0.1017

OBSERVED										INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY	

KOREA , HAN RA SAN , STATION 309-04 , 35-51.3. N, 125-37.0. E, FEB.11.1982, 02:50 KST, DEPTH 58 , COLOR , TRANS. ,
 WAVE 2, SWELL 1, WIND NW 2, BARO 1032. , AIR TEMP. DRY 1.5, WET , CLOUD. TYPE NS, AMT 03, WEATHER BC,
 0 4.63 32.740 ***** 0 4.63 32.740 ***** 25.94 206 206 0.0000.
 10 4.56 32.680 ***** 10 4.56 32.680 ***** 25.90 210 210 0.0208
 20 4.70 32.680 ***** 20 4.70 32.680 ***** 25.89 211 211 0.0419
 30 4.59 32.680 ***** 30 4.59 32.680 ***** 25.90 210 210 0.0630
 55 4.60 32.650 ***** 50 4.59 32.656 ***** 25.88 212 212 0.1054

KOREA , HAN RA SAN , STATION 309-05 , 35-51.3. N, 125-24.4. E, FEB.11.1982, 04:30 KST, DEPTH 68 , COLOR , TRANS. ,
 WAVE 3, SWELL 2, WIND NW 3, BARO 1031.5, AIR TEMP. DRY 2.0, WET , CLOUD. TYPE NS, AMT 10, WEATHER C ,
 0 4.81 32.740 ***** 0 4.81 32.740 ***** 25.92 208 208 0.0000
 10 4.78 32.740 ***** 10 4.78 32.740 ***** 25.93 208 208 0.0208
 20 4.70 32.740 ***** 20 4.70 32.740 ***** 25.94 207 207 0.0415
 30 4.89 32.770 ***** 30 4.89 32.770 ***** 25.94 207 207 0.0623
 50 4.78 32.760 ***** 50 4.78 32.760 ***** 25.94 206 206 0.1037
 65 4.85 32.720 *****

KOREA , HAN RA SAN , STATION 309-06 , 35-51.3. N, 125-12.3. E, FEB.11.1982, 06:20 KST, DEPTH 65 , COLOR , TRANS. ,
 WAVE 3, SWELL 2, WIND NW 3, BARO 1031. , AIR TEMP. DRY 2.5, WET , CLOUD. TYPE NS, AMT 10, WEATHER C ,
 0 5.00 32.770 ***** 0 5.00 32.770 ***** 25.93 208 208 0.0000
 10 5.01 32.770 ***** 10 5.01 32.770 ***** 25.93 208 208 0.0208
 20 4.95 32.830 ***** 20 4.95 32.830 ***** 25.98 203 203 0.0413
 30 5.05 32.810 ***** 30 5.05 32.810 ***** 25.95 205 205 0.0618
 50 4.90 32.770 ***** 50 4.90 32.770 ***** 25.94 207 207 0.1031
 62 4.90 32.760 *****

OBSERVED										INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY	

KOREA , HAN RA SAN , STATION 309-07 , 35-51.3. N, 125-00.0. E, FEB.11.1982, 08:00 KST, DEPTH 67 , COLOR 4, TRANS. 7.0,
 WAVE 3, SWELL 2, WIND NW 3, BARO 1031. , AIR TEMP. DRY 2.5, WET , CLOUD. TYPE NS, AMT 10, WEATHER C ,
 0 4.91 32.770 ***** 0 4.91 32.770 ***** 25.94 207 207 0.0000
 10 4.91 32.760 ***** 10 4.91 32.760 ***** 25.93 208 207 0.0207
 20 4.88 32.740 ***** 20 4.88 32.740 ***** 25.92 209 209 0.0416
 30 4.98 32.720 ***** 30 4.98 32.720 ***** 25.89 211 211 0.0626
 50 4.85 32.720 ***** 50 4.85 32.720 ***** 25.90 210 210 0.1049
 64 4.85 32.740 *****

KOREA , HAN RA SAN , STATION 309-08 , 35-51.3. N, 124-47.8. E, FEB.11.1982, 09:45 KST, DEPTH 83 , COLOR 4, TRANS. 6.0,
 WAVE 3, SWELL 2, WIND NW 3, BARO 1031. , AIR TEMP. DRY 3.4, WET , CLOUD. TYPE NS, AMT 10, WEATHER C ,
 0 5.33 32.770 ***** 0 5.33 32.770 ***** 25.89 211 211 0.0000
 10 5.30 32.770 ***** 10 5.30 32.770 ***** 25.89 211 211 0.0211
 20 5.48 32.790 ***** 20 5.48 32.790 ***** 25.89 212 211 0.0423
 30 5.35 32.850 ***** 30 5.35 32.850 ***** 25.95 206 206 0.0632
 50 5.39 32.870 ***** 50 5.39 32.870 ***** 25.96 205 205 0.1043
 80 5.39 32.890 ***** 75 5.39 32.886 ***** 25.97 203 204 0.1555

KOREA , HAN RA SAN , STATION 309-09 , 35-51.3. N, 124-35.1. E, FEB.11.1982, 11:30 KST, DEPTH 83 , COLOR 3, TRANS. 7.0,
 WAVE 3, SWELL 2, WIND NW 3, BARO 1031. , AIR TEMP. DRY 3.8, WET , CLOUD. TYPE NS, AMT 10, WEATHER C ,
 0 5.48 32.880 ***** 0 5.48 32.880 ***** 25.96 205 204 0.0000
 10 5.50 32.850 ***** 10 5.50 32.850 ***** 25.93 207 207 0.0206
 20 5.50 32.830 ***** 20 5.50 32.830 ***** 25.92 209 209 0.0414
 30 5.53 32.810 ***** 30 5.53 32.810 ***** 25.90 211 211 0.0624
 50 5.40 32.830 ***** 50 5.40 32.830 ***** 25.93 208 208 0.1044
 80 5.43 32.830 ***** 75 5.42 32.830 ***** 25.93 208 208 0.1565

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY

KOREA ,HAN RA SAN , STATION 309-10 , 35-51.3. N, 124-22.8. E, FEB.11.1982, 13:20 KST, DEPTH 89 , COLOR 3, TRANS. 9.0,
 WAVE 3. SWELL 2, WIND NW 3, BARO 1030. , AIR TEMP. DRY 3.5, WET , CLOUD. TYPE NS, AMT 10, WEATHER C ,
 0 5.95 32.940 ***** 0 5.95 32.940 ***** 25.95 206 205 0.0000
 10 6.00 32.920 ***** 10 6.00 32.920 ***** 25.93 208 208 0.0206
 20 6.10 32.940 ***** 20 6.10 32.940 ***** 25.93 207 207 0.0414
 30 6.05 32.940 ***** 30 6.05 32.940 ***** 25.94 207 207 0.0622
 50 6.04 32.940 ***** 50 6.04 32.940 ***** 25.94 207 207 0.1037
 75 5.95 32.950 ***** 75 5.95 32.950 ***** 25.96 205 205 0.1554
 86 6.04 32.950 *****

4 月 (April)

KOREA ,HAN RA SAN , STATION 309-01 , 35-51.3. N, 126-14.7. E, APR. 8.1982, 11:10 KST, DEPTH 29 , COLOR 7, TRANS. 2.0,
 WAVE 4. SWELL 2, WIND NW 4, BARO 1015. , AIR TEMP. DRY 9.3, WET , CLOUD. TYPE AS, AMT 07, WEATHER BC,
 0 6.70 32.540 ***** 0 6.70 32.540 ***** 25.54 245 244 0.0000
 10 6.01 32.540 ***** 10 6.01 32.540 ***** 25.63 236 236 0.0240
 20 5.88 32.560 ***** 20 5.88 32.560 ***** 25.66 233 233 0.0475
 25 5.95 32.560 *****

KOREA ,HAN RA SAN , STATION 309-02 , 35-51.3. N, 126-02.0. E, APR. 8.1982, 12:50 KST, DEPTH 45 , COLOR 6, TRANS. 3.5,
 WAVE 4. SWELL 2, WIND NW 4, BARO 1015. , AIR TEMP. DRY 9.3, WET , CLOUD. TYPE AS, AMT 09, WEATHER C ,
 0 6.09 32.660 ***** 0 6.09 32.660 ***** 25.71 228 228 0.0000
 10 5.90 32.660 ***** 10 5.90 32.660 ***** 25.74 226 226 0.0227
 20 5.72 32.650 ***** 20 5.72 32.650 ***** 25.75 225 225 0.0453
 30 5.80 32.650 ***** 30 5.80 32.650 ***** 25.74 226 226 0.0678
 40 5.84 32.650 *****

OBSERVED										INTERPOLATED					CALCULATED		
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY

KOREA , HAN RA SAN , STATION 307-03 , 35-51.3. N, 125-49.3. E, APR.11.1982, 03:40 KST, DEPTH 52 , COLOR , TRANS. ,
 WAVE 1, SWELL 1, WIND W 1, BARO 1027. , AIR TEMP. DRY 7.0, WET , CLOUD. TYPE , AMT , WEATHER B ,
 0 6.41 32.850 ***** 0 6.41 32.850 ***** 25.82 218 218 0.0000
 10 6.42 32.860 ***** 10 6.42 32.860 ***** 25.83 217 217 0.0217
 20 6.32 32.950 ***** 20 6.32 32.950 ***** 25.91 209 209 0.0431
 30 6.42 32.940 ***** 30 6.42 32.940 ***** 25.89 211 211 0.0642
 48 6.39 32.940 *****

KOREA , HAN RA SAN , STATION 309-04 , 35-51.3. N, 125-37.0. E, APR.11.1982, 05:25 KST, DEPTH 59 , COLOR , TRANS. ,
 WAVE 1, SWELL 1, WIND W 1, BARO 1027. , AIR TEMP. DRY 7.2, WET , CLOUD. TYPE , AMT , WEATHER B ,
 0 6.60 32.880 ***** 0 6.60 32.880 ***** 25.82 218 218 0.0000
 10 6.15 32.900 ***** 10 6.15 32.900 ***** 25.89 211 211 0.0214
 20 6.30 32.940 ***** 20 6.30 32.940 ***** 25.91 210 210 0.0425
 30 6.40 32.940 ***** 30 6.40 32.940 ***** 25.89 211 211 0.0636
 55 6.36 32.970 ***** 50 6.36 32.964 ***** 25.92 209 209 0.1057

KOREA , HAN RA SAN , STATION 309-05 , 35-51.3. N, 125-24.4. E, APR.11.1982, 07:05 KST, DEPTH 72 , COLOR 4, TRANS. 9.0,
 WAVE 1, SWELL 1, WIND SW 1, BARO 1027. , AIR TEMP. DRY 7.7, WET , CLOUD. TYPE AS, AMT 08, WEATHER C ,
 0 7.03 32.970 ***** 0 7.03 32.970 ***** 25.83 217 216 0.0000
 10 6.34 32.940 ***** 10 6.34 32.940 ***** 25.90 210 210 0.0213
 20 6.35 32.950 ***** 20 6.35 32.950 ***** 25.91 210 210 0.0424
 30 6.21 32.970 ***** 30 6.21 32.970 ***** 25.94 206 207 0.0632
 50 6.32 32.950 ***** 50 6.32 32.950 ***** 25.91 209 210 0.1049
 68 6.28 32.970 *****

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA ,HAN RA SAN , STATION 309-06 , 35-51.3. N, 125-12.3. E, APR.11.1982, 08:55 KST, DEPTH 66 , COLOR 3, TRANS. 8.5, WAVE 1, SWELL 1, WIND SW 1, BARQ 1027.5, AIR TEMP. DRY 8.2, WET , CLOUD. TYPE AS, AMT 10, WEATHER C ,																	
0	6.91	32.950	*****							0	6.91	32.950	*****	25.83	217	216	0.0000
10	6.30	32.950	*****							10	6.30	32.950	*****	25.91	209	209	0.0213
20	6.14	32.950	*****							20	6.14	32.950	*****	25.93	207	207	0.0421
30	6.26	32.970	*****							30	6.26	32.970	*****	25.94	207	207	0.0629
50	6.22	32.970	*****							50	6.22	32.970	*****	25.94	207	207	0.1044
62	6.18	33.010	*****														
KOREA ,HAN RA SAN , STATION 309-07 , 35-51.3. N, 125-00.0. E, APR.11.1982, 10:40 KST, DEPTH 67 , COLOR 3, TRANS. 8.0, WAVE 1, SWELL 1, WIND SW 1, BARQ 1026.5, AIR TEMP. DRY 8.8, WET , CLOUD. TYPE AS, AMT 10, WEATHER C ,																	
0	7.18	32.970	*****							0	7.18	32.970	*****	25.81	219	218	0.0000
10	6.76	32.950	*****							10	6.76	32.950	*****	25.85	215	215	0.0216
20	6.45	32.950	*****							20	6.45	32.950	*****	25.90	211	211	0.0430
30	6.25	32.950	*****							30	6.25	32.950	*****	25.92	208	209	0.0640
50	6.42	32.950	*****							50	6.42	32.950	*****	25.90	211	211	0.1060
62	6.28	32.970	*****														
KOREA ,HAN RA SAN , STATION 309-08 , 35-51.3. N, 124-47.8. E, APR.11.1982, 12:30 KST, DEPTH 78 , COLOR 3, TRANS. 9.0, WAVE 1, SWELL 1, WIND SE 1, BARQ 1026. , AIR TEMP. DRY 8.9, WET , CLOUD. TYPE AS, AMT 10, WEATHER C ,																	
0	6.81	32.950	*****							0	6.81	32.950	*****	25.85	215	215	0.0000
10	6.62	32.970	*****							10	6.62	32.970	*****	25.89	211	211	0.0213
20	6.62	32.990	*****							20	6.62	32.990	*****	25.90	210	210	0.0424
30	6.40	33.010	*****							30	6.40	33.010	*****	25.95	206	206	0.0633
50	6.38	33.060	*****							50	6.38	33.060	*****	25.99	202	202	0.1042
75	6.38	33.100	*****							75	6.38	33.100	*****	26.02	199	199	0.1545

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY

KOREA , HAN RA SAN , STATION 309-09 , 35-51.3. N, 124-35.1. E, APR.11.1982, 14:20 KST, DEPTH 82 , COLOR 3, TRANS. 9.0,
 WAVE 1, SWELL 1, WIND SE 1, BARO 1023.5, AIR TEMP. DRY 10.1, WET , CLOUD. TYPE AS, AMT 06, WEATHER BC.
 0 7.70 33.030 ***** 0 7.70 33.030 ***** 25.79 221 221 0.0000
 10 6.89 33.060 ***** 10 6.89 33.060 ***** 25.92 208 208 0.0214
 20 6.82 33.060 ***** 20 6.82 33.060 ***** 25.93 207 207 0.0422
 30 6.70 33.080 ***** 30 6.70 33.080 ***** 25.96 204 204 0.0629
 50 6.52 33.080 ***** 50 6.52 33.080 ***** 25.99 202 202 0.1036
 77 6.52 33.100 ***** 75 6.52 33.098 ***** 26.00 201 201 0.1542

KOREA , HAN RA SAN , STATION 309-10 , 35-51.3. N, 124-22.8. E, APR.11.1982, 16:15 KST, DEPTH 85 , COLOR 3, TRANS. 8.0,
 WAVE 1, SWELL 1, WIND S 1, BARO 1024.5, AIR TEMP. DRY 12.0, WET , CLOUD. TYPE AS, AMT 02, WEATHER B ,
 0 8.10 33.060 ***** 0 8.10 33.060 ***** 25.75 224 224 0.0000
 10 7.12 33.080 ***** 10 7.12 33.080 ***** 25.91 210 209 0.0217
 20 7.02 33.100 ***** 20 7.02 33.100 ***** 25.94 207 207 0.0425
 30 6.90 33.100 ***** 30 6.90 33.100 ***** 25.95 205 205 0.0632
 50 6.71 33.120 ***** 50 6.71 33.120 ***** 26.00 201 202 0.1040
 75 6.70 33.120 ***** 75 6.70 33.120 ***** 26.00 201 202 0.1546
 80 6.60 33.130 *****

6月(June)

KOREA , HAN RA SAN , STATION 309-01 , 35-51.3. N, 126-14.7. E, JUN. 7.1982, 01:10 KST, DEPTH 33 , COLOR , TRANS. ,
 WAVE 1, SWELL 1, WIND NE 1, BARO 1013.5, AIR TEMP. DRY 17.0, WET , CLOUD. TYPE AS, AMT 08, WEATHER F ,
 0 16.68 32.340 ***** 0 16.68 32.340 ***** 23.57 433 432 0.0000
 10 13.96 32.380 ***** 10 13.96 32.380 ***** 24.19 370 373 0.0403

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

20 13.41 32.410 *****
30 13.14 32.450 *****

KOREA , HAN RA SAN , STATION 309-02 , 35-51.3. N, 126-02.0. E, JUN. 7.1982, 02:50 KST, DEPTH 43 , COLOR , TRANS. ,
WAVE 1, SWELL 1, WIND E 1, BARO 1013. , AIR TEMP. DRY 16.5, WET , CLOUD. TYPE AS, AMT 05, WEATHER BC,
0 17.10 32.340 *****
10 13.51 32.480 *****
20 13.34 32.480 *****
30 13.42 32.480 *****
40 13.24 32.480 *****

KOREA , HAN RA SAN , STATION 309-03 , 35-51.3. N, 125-49.3. E, JUN. 7.1982, 04:30 KST, DEPTH 54 , COLOR , TRANS. ,
WAVE 1, SWELL 1, WIND E 1, BARO 1013.5, AIR TEMP. DRY 16.3, WET , CLOUD. TYPE AS, AMT 03, WEATHER BC,
0 18.25 32.470 *****
10 12.67 32.590 *****
20 12.40 32.590 *****
30 13.34 32.630 *****
50 11.76 32.660 *****

KOREA , HAN RA SAN , STATION 309-04 , 35-51.3. N, 125-37.0. E, JUN. 7.1982, 06:10 KST, DEPTH 58 , COLOR , TRANS. ,
WAVE 1, SWELL 1, WIND SE 1, BARO 1013.5, AIR TEMP. DRY 16.1, WET , CLOUD. TYPE , AMT 00, WEATHER B ,
0 18.70 32.570 *****
10 16.90 32.590 *****
20 10.73 32.700 *****
30 10.59 32.700 *****
55 10.53 32.700 *****

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA , HAN RA SAN , STATION 309-05 , 35-51.3. N, 125-24.4. E, JUN. 7.1982, 07:50 KST, DEPTH 72 , COLOR 3, TRANS. 11.0,
 WAVE 1, SWELL 1, WIND S 1, BARO 1013. , AIR TEMP. DRY 17.0, WET , CLOUD. TYPE , AMT 00, WEATHER B ,
 0 19.29 32.790 ***** 0 19.29 32.790 ***** 23.28 460 460 0.0000
 10 16.89 32.810 ***** 10 16.89 32.810 ***** 23.88 403 403 0.0431
 20 13.37 32.860 ***** 20 13.37 32.860 ***** 24.68 327 327 0.0797
 30 8.72 32.860 ***** 30 8.72 32.860 ***** 25.50 248 248 0.1085
 50 8.65 32.860 ***** 50 8.65 32.860 ***** 25.51 247 248 0.1582
 67 8.13 32.860 *****

KOREA , HAN RA SAN , STATION 309-06 , 35-51.3. N, 125-12.3. E, JUN. 7.1982, 09:35 KST, DEPTH 65 , COLOR 3, TRANS. 14.0,
 WAVE 1, SWELL 1, WIND S 1, BARO 1013. , AIR TEMP. DRY 18.8, WET , CLOUD. TYPE CI, AMT 06, WEATHER BC,
 0 18.92 32.650 ***** 0 18.92 32.650 ***** 23.26 461 461 0.0000
 10 17.92 32.710 ***** 10 17.92 32.710 ***** 23.56 434 434 0.0447
 20 11.85 32.830 ***** 20 11.85 32.830 ***** 24.95 301 301 0.0815
 30 7.74 32.850 ***** 30 7.74 32.850 ***** 25.64 235 235 0.1084
 50 7.50 32.850 ***** 50 7.50 32.850 ***** 25.68 232 232 0.1552
 60 7.34 32.850 *****

KOREA , HAN RA SAN , STATION 309-07 , 35-51.3. N, 125-00.0. E, JUN. 7.1982, 11:15 KST, DEPTH 68 , COLOR 3, TRANS. 13.0,
 WAVE 1, SWELL 1, WIND SW 1, BARO 1014. , AIR TEMP. DRY 18.4, WET , CLOUD. TYPE CI, AMT 03, WEATHER BC,
 0 19.82 32.700 ***** 0 19.82 32.700 ***** 23.07 480 479 0.0000
 10 15.37 32.870 ***** 10 15.37 32.870 ***** 24.27 366 366 0.0423
 20 11.15 32.920 ***** 20 11.15 32.920 ***** 25.15 282 282 0.0747
 30 6.98 32.920 ***** 30 6.98 32.920 ***** 25.80 220 220 0.0999
 50 6.94 32.920 ***** 50 6.94 32.920 ***** 25.81 219 220 0.1439
 63 6.96 33.030 *****

OBSERVED										INTERPOLATED				CALCULATED		
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA D-DY
KOREA , HAN RA SAN , STATION 309-08 , 35-51.3. N, 124-47.8. E, JUN. 7.1982, 13:00 KST, DEPTH 82 , COLOR 3, TRANS. 11.0,																
WAVE 1, WIND SW 1, BARO 1013.5, AIR TEMP. DRY 18.5, WET , CLOUD. TYPE , AMT 00, WEATHER B ,																
0	19.01	32.680	*****							0	19.01	32.680	*****	23.26	461	0.0000
10	14.82	32.760	*****							10	14.82	32.760	*****	24.30	363	0.0412
20	11.16	32.940	*****							20	11.16	32.940	*****	25.16	281	0.0734
30	6.90	32.970	*****							30	6.90	32.970	*****	25.85	215	0.0982
50	6.96	32.970	*****							50	6.96	32.970	*****	25.84	216	0.1415
79	6.85	32.970	*****							75	6.86	32.970	*****	25.86	215	0.1955
KOREA , HAN RA SAN , STATION 309-09 , 35-51.3. N, 124-35.1. E, JUN. 7.1982, 14:40 KST, DEPTH 83 , COLOR 3, TRANS. 11.0,																
WAVE 1, SWELL 1, WIND SW 1, BARO 1014. , AIR TEMP. DRY 20.3, WET , CLOUD. TYPE , AMT 00, WEATHER B ,																
0	20.01	32.970	*****							0	20.01	32.970	*****	23.23	465	0.0000
10	16.64	32.040	*****							10	16.64	32.040	*****	23.35	454	0.0459
20	12.45	33.040	*****							20	12.45	33.040	*****	25.00	296	0.0834
30	6.87	33.040	*****							30	6.87	33.040	*****	25.91	209	0.1088
50	6.97	33.050	*****							50	6.97	33.050	*****	25.91	210	0.1509
80	6.81	33.050	*****							75	6.83	33.050	*****	25.92	208	0.2034
KOREA , HAN RA SAN , STATION 309-10 , 35-51.3. N, 124-22.8. E, JUN. 7.1982, 16:25 KST, DEPTH 86 , COLOR 3, TRANS. 12.0,																
WAVE 1, SWELL 1, WIND SW 1, BARO 1012. , AIR TEMP. DRY 21.0, WET , CLOUD. TYPE CI, AMT 03, WEATHER BC,																
0	18.85	32.520	*****							0	18.85	32.520	*****	23.18	469	0.0000
10	17.37	32.590	*****							10	17.37	32.590	*****	23.60	430	0.0449
20	13.90	32.840	*****							20	13.90	32.840	*****	24.56	338	0.0834
30	6.90	32.970	*****							30	6.90	32.970	*****	25.85	215	0.1111
50	6.65	32.970	*****							50	6.65	32.970	*****	25.88	212	0.1539
75	6.60	32.950	*****							75	6.60	32.950	*****	25.88	213	0.2073
80	6.60	33.010	*****													

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY

8月(August)

KOREA ,HAN RA SAN , STATION 309-01 , 35-51.3. N, 126-14.7. E, AUG. 9.1982, 23:30 KST, DEPTH 28 , COLOR , TRANS. ,
 WAVE 1. SWELL 1, WIND W 1, BARO 1012.5, AIR TEMP. DRY 27.0, WET , CLOUD. TYPE , AMT 00, WEATHER B ,
 0 26.47 32.070 ***** 0 26.47 32.070 ***** 20.70 707 707 0.0000
 10 23.88 32.290 ***** 10 23.88 32.290 ***** 21.65 616 616 0.0661
 20 21.05 32.470 ***** 20 21.05 32.470 ***** 22.58 527 528 0.1734
 25 20.76 32.470 *****

KOREA ,HAN RA SAN , STATION 309-02 , 35-51.3. N, 126-02.0. E, AUG.10.1982, 01:10 KST, DEPTH 44 , COLOR , TRANS. ,
 WAVE 1. SWELL 1, WIND W 1, BARO 1012. , AIR TEMP. DRY 26.8, WET , CLOUD. TYPE , AMT 00, WEATHER B ,
 0 25.92 32.120 ***** 0 25.92 32.120 ***** 20.91 687 687 0.0000
 10 23.01 32.180 ***** 10 23.01 32.180 ***** 21.81 600 600 0.0643
 20 20.76 32.270 ***** 20 20.76 32.270 ***** 22.50 534 535 0.1211
 30 19.64 32.380 ***** 30 19.64 32.380 ***** 22.88 499 499 0.1729
 40 18.64 32.410 *****

KOREA ,HAN RA SAN , STATION 309-03 , 35-51.3. N, 125-49.3. E, AUG.10.1982, 02:50 KST, DEPTH 54 , COLOR , TRANS. ,
 WAVE 1. SWELL 1, WIND W 2, BARO 1011.5, AIR TEMP. DRY 26.9, WET , CLOUD. TYPE C1, AMT 01, WEATHER B ,
 0 27.10 32.090 ***** 0 27.10 32.090 ***** 20.52 725 724 0.0000
 10 25.43 32.090 ***** 10 25.43 32.090 ***** 21.03 675 675 0.0700
 20 19.33 32.500 ***** 20 19.33 32.500 ***** 23.05 482 483 0.1279
 30 17.73 32.650 ***** 30 17.73 32.650 ***** 23.56 434 434 0.1738
 50 17.53 32.700 ***** 50 17.53 32.700 ***** 23.64 425 426 0.2599

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY

KOREA ,HAN RA SAN , STATION 309-04 , 35-51.3. N, 125-37.0. E, AUG.10.1982, 04:35 KST, DEPTH 55 , COLOR , TRANS.

WAVE 1, SWELL 1, WIND SW 2, BARO 1012.9, AIR TEMP. DRY 26.5, WET , CLOUD. TYPE C1, AMT 01, WEATHER B ,

0	26.98	32.090	*****							0	26.98	32.090	*****	20.55	721	721	0.0000
10	21.83	32.210	*****							10	21.83	32.210	*****	22.17	566	566	0.0644
20	16.85	32.500	*****							20	16.85	32.500	*****	23.65	425	425	0.1140
30	15.94	32.560	*****							30	15.94	32.560	*****	23.90	401	401	0.1553
50	15.05	32.570	*****							50	15.05	32.570	*****	24.11	381	382	0.2337

KOREA ,HAN RA SAN , STATION 309-05 , 35-51.3. N, 125-24.4. E, AUG.10.1982, 06:15 KST, DEPTH 68 , COLOR , TRANS.

WAVE 1, SWELL 1, WIND SW 2, BARO 1013. , AIR TEMP. DRY 26.5, WET , CLOUD. TYPE AS, AMT 08, WEATHER C ,

0	26.70	32.200	*****							0	26.70	32.200	*****	20.73	705	704	0.0000
10	25.79	32.360	*****							10	25.79	32.360	*****	21.13	666	666	0.0685
20	17.92	32.560	*****							20	17.92	32.560	*****	23.44	445	445	0.1241
30	15.45	32.560	*****							30	15.45	32.560	*****	24.01	390	391	0.1659
50	14.35	32.560	*****							50	14.35	32.560	*****	24.25	368	369	0.2419
63	14.06	32.740	*****														

KOREA ,HAN RA SAN , STATION 309-06 , 35-51.3. N, 125-12.3. E, AUG.10.1982, 08:10 KST, DEPTH 63 , COLOR 5, TRANS. 9.0,

WAVE 1, SWELL 1, WIND S 2, BARO 1012. , AIR TEMP. DRY 27.5, WET , CLOUD. TYPE C1, AMT 08, WEATHER C ,

0	26.96	32.270	*****							0	26.96	32.270	*****	20.70	707	707	0.0000
10	26.11	32.390	*****							10	26.11	32.390	*****	21.05	673	673	0.0690
20	19.19	32.390	*****							20	19.19	32.390	*****	23.00	487	487	0.1271
30	16.43	32.450	*****							30	16.43	32.450	*****	23.71	419	420	0.1725
50	12.89	32.520	*****							50	12.89	32.520	*****	24.51	342	343	0.2489
60	12.91	32.540	*****														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA ,HAN RA SAN , STATION 309-07 , 35-51.3. N, 125-00.0. E, AUG.10.1982, 09:50 KST, DEPTH 65 , COLOR 5, TRANS. 10.0,
 WAVE 2, SWELL 1, WIND S 3, BARO 1013. , AIR TEMP. DRY 27.2, WET , CLOUD. TYPE C1, AMT 04, WEATHER BC,
 0 26.90 32.360 ***** 0 26.90 32.360 ***** 20.78 699 699 0.0000
 10 25.09 32.560 ***** 10 25.09 32.560 ***** 21.49 631 631 0.0665
 20 18.74 32.660 ***** 20 18.74 32.660 ***** 23.32 456 457 0.1209
 30 13.75 32.660 ***** 30 13.75 32.660 ***** 24.45 349 349 0.1613
 50 12.12 32.950 ***** 50 12.12 32.950 ***** 24.99 297 298 0.2260
 60 11.94 33.060 *****

KOREA ,HAN RA SAN , STATION 309-08 , 35-51.3. N, 124-47.8. E, AUG.10.1982, 11:35 KST, DEPTH 80 , COLOR 4, TRANS. 10.5,
 WAVE 2, SWELL 1, WIND SE 2, BARO 1013.5, AIR TEMP. DRY 27.3, WET , CLOUD. TYPE C1, AMT 02, WEATHER B ,
 0 26.53 32.470 ***** 0 26.53 32.470 ***** 20.98 680 680 0.0000
 10 25.88 32.470 ***** 10 25.88 32.470 ***** 21.18 661 661 0.0670
 20 21.56 32.610 ***** 20 21.56 32.610 ***** 22.54 530 531 0.1266
 30 16.75 32.680 ***** 30 16.75 32.680 ***** 23.81 409 410 0.1737
 50 10.39 32.940 ***** 50 10.39 32.940 ***** 25.30 268 269 0.2417
 75 10.36 33.060 ***** 75 10.36 33.060 ***** 25.39 259 260 0.3078

KOREA ,HAN RA SAN , STATION 309-09 , 35-51.3. N, 124-35.1. E, AUG.10.1982, 13:20 KST, DEPTH 80 , COLOR 4, TRANS. 11.0,
 WAVE 2, SWELL 1, WIND SE 3, BARO 1013. , AIR TEMP. DRY 27.7, WET , CLOUD. TYPE C1, AMT 02, WEATHER B ,
 0 26.80 32.390 ***** 0 26.80 32.390 ***** 20.84 694 694 0.0000
 10 26.47 32.380 ***** 10 26.47 32.380 ***** 20.93 685 685 0.0689
 20 19.66 32.540 ***** 20 19.66 32.540 ***** 22.99 487 488 0.1276
 30 16.21 32.550 ***** 30 16.21 32.550 ***** 23.83 407 408 0.1724
 50 10.19 32.810 ***** 50 10.19 32.810 ***** 25.23 274 275 0.2407
 75 9.48 33.040 ***** 75 9.48 33.040 ***** 25.49 249 250 0.3065

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY

KOREA , HAN RA SAN , STATION 309-10 , 35-51.3. N, 124-22.8. E, AUG. 10. 1982, 15:10 KST, DEPTH 85 , COLOR 4, TRANS. 12.0,
 WAVE 2, SWELL 1, WIND E 3, BARO 1012. , AIR TEMP. DRY 28.3, WET , CLOUD. TYPE CI, AMT 01, WEATHER B ,
 0 26.97 32.470 ***** 0 26.97 32.470 ***** 20.84 693 693 0.0000
 10 26.68 32.520 ***** 10 26.68 32.520 ***** 20.97 681 681 0.0687
 20 24.01 32.520 ***** 20 24.01 32.520 ***** 21.78 603 604 0.1330
 30 17.66 32.570 ***** 30 17.66 32.570 ***** 23.51 438 438 0.1851
 50 11.38 32.740 ***** 50 11.38 32.740 ***** 24.97 299 300 0.2591
 75 9.60 32.950 ***** 75 9.60 32.950 ***** 25.44 255 256 0.3286
 80 8.13 33.080 *****

10月(October)

KOREA , HAN RA SAN , STATION 309-01 , 35-51.3. N, 126-14.7. E, OCT. 8. 1982, 07:45 KST, DEPTH 29 , COLOR , TRANS. ,
 WAVE 2, SWELL 1, WIND N 2, BARO 1018. , AIR TEMP. DRY 20.8, WET , CLOUD. TYPE , AMT 00, WEATHER B ,
 0 20.11 32.740 5.19 0 20.11 32.740 5.19 23.03 484 484 0.0000
 10 20.11 32.770 5.09 10 20.11 32.770 5.09 23.05 482 482 0.0483
 20 19.97 32.760 5.03 20 19.97 32.760 5.03 23.08 479 479 0.0964
 25 19.87 32.760 5.00

KOREA , HAN RA SAN , STATION 309-02 , 35-51.3. N, 126-02.0. E, OCT. 8. 1982, 09:25 KST, DEPTH 45 , COLOR 5, TRANS. 10.0,
 WAVE 1, SWELL 1, WIND N 2, BARO 1017. , AIR TEMP. DRY 22.0, WET , CLOUD. TYPE , AMT 00, WEATHER B ,
 0 20.21 32.740 5.19 0 20.21 32.740 5.19 23.00 486 486 0.0000
 10 20.14 32.740 5.05 10 20.14 32.740 5.05 23.02 485 485 0.0485
 20 20.01 32.740 4.88 20 20.01 32.740 4.88 23.05 481 482 0.0969
 30 18.32 32.720 5.02 30 18.32 32.720 5.02 23.47 442 443 0.1432
 40 18.29 32.720 4.88

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY
KOREA .HAN RA SAN . STATION 309-03 . 35-51.3. N, 125-49.3. E, OCT. 9.1982, 07:40 KST, DEPTH 54 , COLOR , TRANS.																	
WAVE 2. SWELL 1, WIND E 2, BARO 1022. , AIR TEMP. DRY 19.5. WET , CLOUD. TYPE , AMT 00, WEATHER B .																	
0	20.23	32.700	5.40							0	20.23	32.700	5.40	22.97	490	490	0.0000
10	20.11	32.700	5.24							10	20.11	32.700	5.24	23.00	487	487	0.0488
20	19.57	32.740	5.09							20	19.57	32.740	5.09	23.17	471	471	0.0968
30	17.59	32.790	5.09							30	17.59	32.790	5.09	23.70	420	421	0.1414
50	17.56	32.800	4.77							50	17.56	32.800	4.77	23.71	419	420	0.2256
KOREA .HAN RA SAN . STATION 309-04 , 35-51.3. N, 125-37.0. E, OCT. 9.1982, 09:25 KST, DEPTH 57 , COLOR 4, TRANS. 12.0.																	
WAVE 2. SWELL 1, WIND SE 2, BARO 1021.5, AIR TEMP. DRY 20.5, WET , CLOUD. TYPE , AMT 00, WEATHER B .																	
0	20.46	32.530	5.41							0	20.46	32.530	5.41	22.78	508	508	0.0000
10	20.35	32.570	5.24							10	20.35	32.570	5.24	22.84	502	502	0.0505
20	20.15	32.570	4.99							20	20.15	32.570	4.99	22.89	497	498	0.1005
30	17.85	32.850	4.98							30	17.85	32.850	4.98	23.68	422	422	0.1466
53	17.24	32.860	4.76							50	17.31	32.858	4.78	23.81	409	410	0.2299
KOREA .HAN RA SAN . STATION 309-05 . 35-51.3. N, 125-24.4. E, OCT. 9.1982, 11:05 KST, DEPTH 69 , COLOR 3, TRANS. 17.0.																	
WAVE 2. SWELL 1, WIND SE 2, BARO 1024. , AIR TEMP. DRY 21.8, WET , CLOUD. TYPE , AMT 00, WEATHER B .																	
0	20.65	32.390	5.40							0	20.65	32.390	5.40	22.62	523	523	0.0000
10	20.63	32.390	5.10							10	20.63	32.390	5.10	22.63	522	522	0.0523
20	20.57	32.430	4.98							20	20.57	32.430	4.98	22.67	518	518	0.1043
30	18.26	32.560	4.89							30	18.26	32.560	4.89	23.36	452	453	0.1530
50	15.52	32.940	4.89							50	15.52	32.940	4.89	24.29	364	365	0.2348
65	15.53	33.010	4.92														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA ,HAN RA SAN , STATION 309-06 , 35-51.3. N, 125-12.3. E, OCT. 9.1982, 12:50 KST, DEPTH 64 , COLOR 2, TRANS. 19.0;

WAVE 1, SWELL 1, WIND SE 2, BARO 1024. , AIR TEMP. DRY 21.6, WET , CLOUD. TYPE , AMT 00, WEATHER B ,

0	20.96	32.390	5.81							0	20.96	32.390	5.81	22.54	531	531	0.0000
10	20.90	32.380	5.35							10	20.90	32.380	5.35	22.55	530	530	0.0530
20	20.15	32.380	5.21							20	20.15	32.380	5.21	22.75	511	511	0.1051
30	18.60	32.570	5.08							30	18.60	32.570	5.08	23.28	460	460	0.1538
50	14.03	33.040	5.02							50	14.03	33.040	5.02	24.68	326	327	0.2326
60	13.93	33.100	5.01														

KOREA ,HAN RA SAN , STATION 309-07 , 35-51.3. N, 125-00.0. E, OCT. 9.1982, 14:35 KST, DEPTH 66 , COLOR 2, TRANS. 19.0,

WAVE 2, SWELL 1, WIND SE 2, BARO 1023.5, AIR TEMP. DRY 21.6, WET , CLOUD. TYPE , AMT 00, WEATHER B ,

0	21.22	32.430	5.78							0	21.22	32.430	5.78	22.50	535	534	0.0000
10	21.21	32.540	5.56							10	21.21	32.540	5.56	22.59	526	526	0.0530
20	20.18	32.610	5.21							20	20.18	32.610	5.21	22.91	495	495	0.1042
30	18.71	32.720	5.24							30	18.71	32.720	5.24	23.37	451	452	0.1516
50	17.51	33.100	5.18							50	17.51	33.100	5.18	24.84	312	313	0.2281
61	17.46	33.150	4.89														

KOREA ,HAN RA SAN , STATION 309-08 , 35-51.3. N, 124-47.8. E, OCT. 9.1982, 16:25 KST, DEPTH 82 , COLOR 2, TRANS. 20.0,

WAVE 1, SWELL 1, WIND SE 1, BARO 1023. , AIR TEMP. DRY 21.0, WET , CLOUD. TYPE , AMT 00, WEATHER B ,

0	22.18	32.230	5.71							0	22.18	32.230	5.71	22.09	574	574	0.0000
10	22.14	32.410	5.50							10	22.14	32.410	5.50	22.23	560	560	0.0567
20	22.11	32.420	5.49							20	22.11	32.420	5.49	22.25	559	559	0.1127
30	20.30	32.480	5.39							30	20.30	32.480	5.39	22.78	508	508	0.1661
50	12.90	33.080	5.09							50	12.90	33.080	5.09	24.94	301	302	0.2473
77	12.89	33.100	4.99							75	12.89	33.098	4.99	24.96	300	301	0.3279

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY

KOREA , HAN RA SAN , STATION 309-09 , 35-51.3. N, 124-35.1. E, OCT. 9.1982, 18:10 KST, DEPTH 82 , COLOR , TRANS. ,
 WAVE 1, SWELL , WIND SE 1, BARO 1023. , AIR TEMP. DRY 20.5, WET , CLOUD. TYPE , AMT 00, WEATHER B ,
 0 22.01 32.070 5.57 0 22.01 32.070 5.57 22.01 581 581 0.0000
 10 21.83 32.090 5.23 10 21.83 32.090 5.23 22.08 575 575 0.0578
 20 21.77 32.090 5.07 20 21.77 32.090 5.07 22.09 574 574 0.1153
 30 20.76 32.470 5.00 30 20.76 32.470 5.00 22.65 520 521 0.1701
 50 10.87 32.950 5.00 50 10.87 32.950 5.00 25.22 275 276 0.2499
 77 9.52 32.940 4.94 75 9.62 32.940 4.94 25.42 256 257 0.3165

KOREA , HAN RA SAN , STATION 309-10 , 35-51.3. N, 124-22.8. E, OCT. 9.1982, 20:00 KST, DEPTH 88 , COLOR , TRANS. ,
 WAVE 2, SWELL 1, WIND SE 1, BARO 1022.5, AIR TEMP. DRY 20.0, WET , CLOUD. TYPE , AMT 00, WEATHER B ,
 0 22.20 32.000 5.44 0 22.20 32.000 5.44 21.91 591 591 0.0000
 10 22.19 32.030 5.39 10 22.19 32.030 5.39 21.93 589 589 0.0590
 20 22.18 32.080 5.12 20 22.18 32.080 5.12 21.97 585 585 0.1178
 30 21.89 32.230 4.89 30 21.89 32.230 4.89 22.17 567 567 0.1753
 50 10.37 32.740 4.94 50 10.37 32.740 4.94 25.14 282 283 0.2606
 75 7.60 32.790 4.61 75 7.60 32.790 4.61 25.61 238 238 0.3259
 84 7.59 32.840 4.55

12月(December)

KOREA , HAN RA SAN , STATION 309-01 , 35-51.3. N, 126-14.7. E, DEC.18.1982, 10:40 KST, DEPTH 29 , COLOR 8, TRANS. 1.6,
 WAVE 2, SWELL 1, WIND SW 3, BARO 1030. , AIR TEMP. DRY 9.0, WET , CLOUD. TYPE AS, AMT 09, WEATHER C ,
 0 10.20 32.400 5.89 0 10.20 32.400 5.89 24.91 305 304 0.0000
 10 10.27 32.430 5.71 10 10.27 32.430 5.71 24.92 304 304 0.0304
 20 10.22 32.450 5.66 20 10.22 32.450 5.66 24.94 301 301 0.0607

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY
KOREA ,HAN RA SAN , STATION 309-02 , 35-51.3. N, 126-02.0. E, DEC.20.1982, 09:40 KST, DEPTH 45 , COLOR 8, TRANS. 2.0,																	
WAVE 2, SWELL 1, WIND SW 3, BARO 1031. , AIR TEMP. DRY 9.8, WET , CLOUD. TYPE AS, AMT 07, WEATHER BC,																	
0	11.16	32.520	5.52							0	11.16	32.520	5.52	24.83	312	311	0.0000
10	11.17	32.520	5.54							10	11.17	32.520	5.54	24.83	312	312	0.0312
20	11.05	32.520	5.53							20	11.05	32.520	5.53	24.85	310	310	0.0623
30	11.02	32.520	5.44							30	11.02	32.520	5.44	24.86	309	310	0.0933
40	10.85	32.590	5.33														
KOREA ,HAN RA SAN , STATION 309-03 , 35-51.3. N, 125-49.3. E, DEC.20.1982, 11:20 KST, DEPTH 54 , COLOR 6, TRANS. 4.5,																	
WAVE 2, SWELL 1, WIND SW 3, BARO 1031.5, AIR TEMP. DRY 11.2, WET , CLOUD. TYPE AS, AMT 07, WEATHER BC,																	
0	11.60	32.520	5.31							0	11.60	32.520	5.31	24.76	319	319	0.0000
10	11.56	32.520	5.56							10	11.56	32.520	5.56	24.76	319	319	0.0319
20	11.53	32.520	5.44							20	11.53	32.520	5.44	24.77	318	318	0.0638
30	11.61	32.520	5.43							30	11.61	32.520	5.43	24.75	319	320	0.0957
50	11.62	32.500	5.43							50	11.62	32.500	5.43	24.74	321	322	0.1600
KOREA ,HAN RA SAN , STATION 309-04 , 35-51.3. N, 125-37.0. E, DEC.20.1982, 13:05 KST, DEPTH 57 , COLOR 6, TRANS. 5.0,																	
WAVE 3, SWELL 2, WIND SW 4, BARO 1031.5, AIR TEMP. DRY 11.0, WET , CLOUD. TYPE AS, AMT 08, WEATHER C ,																	
0	11.40	32.520	5.52							0	11.40	32.520	5.52	24.79	316	316	0.0000
10	11.41	32.520	5.70							10	11.41	32.520	5.70	24.79	316	316	0.0316
20	11.32	32.520	5.41							20	11.32	32.520	5.41	24.81	314	315	0.0631
30	11.31	32.520	5.31							30	11.31	32.520	5.31	24.81	314	315	0.0947
52	11.30	32.520	5.30							50	11.30	32.520	5.30	24.81	314	315	0.1577
KOREA ,HAN RA SAN , STATION 309-05 , 35-51.3. N, 125-24.4. E, DEC.20.1982, 14:45 KST, DEPTH 69 , COLOR 6, TRANS. 5.0,																	
WAVE 3, SWELL 2, WIND SW 4, BARO 1031. , AIR TEMP. DRY 10.7, WET , CLOUD. TYPE AS, AMT 06, WEATHER BC,																	
0	11.52	32.540	5.62							0	11.52	32.540	5.62	24.82	313	313	0.0000

OBSERVED										INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY	

10	11.27	32.520	5.62							10	11.27	32.520	5.62	24.82	314	314	0.0313
20	11.27	32.540	5.62							20	11.27	32.540	5.62	24.83	312	312	0.0626
30	11.32	32.540	5.38							30	11.32	32.540	5.38	24.82	313	313	0.0940
50	11.32	32.540	5.26							50	11.32	32.540	5.26	24.82	313	314	0.1568
65	11.11	32.500	5.05														

KOREA , HAN RA SAN , STATION 309-06 , 35-51.3. N, 125-12.3. E, DEC.20.1982, 16130 KST, DEPTH 64 , COLOR 5, TRANS. 6.0,

WAVE 3, SWELL 2, WIND SW 4, BARO 1030. , AIR TEMP. DRY 10.0, WET , CLOUD. TYPE AC, AMT 05, WEATHER BC,

0	11.13	32.520	5.46							0	11.13	32.520	5.46	24.84	311	311	0.0000
10	11.12	32.520	5.38							10	11.12	32.520	5.38	24.84	311	311	0.0311
20	11.01	32.530	5.46							20	11.01	32.530	5.46	24.87	308	309	0.0621
30	10.96	32.540	5.48							30	10.96	32.540	5.48	24.89	307	307	0.0930
50	10.99	32.550	5.49							50	10.99	32.550	5.49	24.89	307	307	0.1545
60	10.81	32.570	5.55														

KOREA , HAN RA SAN , STATION 309-07 , 35-51.3. N, 125-00.0. E, DEC.20.1982, 18110 KST, DEPTH 66 , COLOR , TRANS. ,

WAVE 3, SWELL 2, WIND SW 4, BARO 1029. , AIR TEMP. DRY 9.8, WET , CLOUD. TYPE AS, AMT 04, WEATHER BC,

0	10.98	32.500	5.20							0	10.98	32.500	5.20	24.85	310	310	0.0000
10	10.90	32.500	5.26							10	10.90	32.500	5.26	24.87	309	309	0.0309
20	10.84	32.500	5.31							20	10.84	32.500	5.31	24.88	308	308	0.0618
30	10.90	32.530	5.31							30	10.90	32.530	5.31	24.89	307	307	0.0926
50	10.93	32.560	5.42							50	10.93	32.560	5.42	24.91	305	306	0.1540
62	10.92	32.570	5.31														

KOREA , HAN RA SAN , STATION 309-08 , 35-51.3. N, 124-47.8. E, DEC.20.1982, 19155 KST, DEPTH 82 , COLOR , TRANS. ,

WAVE 3, SWELL 2, WIND SW 4, BARO 1029. , AIR TEMP. DRY 10.1, WET , CLOUD. TYPE CI, AMT 03, WEATHER BC,

0	10.67	32.500	5.32							0	10.67	32.500	5.32	24.91	305	305	0.0000
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OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY

10	10.51	32.500	5.34							10	10.51	32.500	5.34	24.93	302	302	0.0304
20	10.50	32.500	5.41							20	10.50	32.500	5.41	24.93	302	302	0.0606
30	10.57	32.500	5.26							30	10.57	32.500	5.26	24.92	303	304	0.0910
50	10.38	32.520	5.41							50	10.38	32.520	5.41	24.97	299	299	0.1514
77	10.31	32.580	5.34							75	10.31	32.575	5.34	25.02	294	295	0.2258

KOREA ,HAN RA SAN , STATION 309-09 , 35-51.3. N, 124-35.1. E, DEC.20.1982, 21:35 KST, DEPTH 82 , COLOR , TRANS. ,																	
WAVE 2, SWELL 1, WIND SW 3, BARO 1029. , AIR TEMP. DRY 10.1, WET , CLOUD. TYPE , AMT 00, WEATHER B ,																	
0	10.39	32.450	5.12							0	10.35	32.450	5.12	24.91	304	304	0.0000
10	10.33	32.470	5.33							10	10.33	32.470	5.33	24.94	302	302	0.0303
20	10.38	32.470	5.33							20	10.38	32.470	5.33	24.93	303	303	0.0605
30	10.31	32.470	5.41							30	10.31	32.470	5.41	24.94	301	302	0.0908
50	10.27	32.540	5.34							50	10.27	32.540	5.34	25.00	296	296	0.1507
77	10.30	32.560	5.46							75	10.29	32.558	5.45	25.01	295	296	0.2248

KOREA ,HAN RA SAN , STATION 309-10 , 35-51.3. N, 124-22.8. E, DEC.20.1982, 23:25 KST, DEPTH 88 , COLOR , TRANS. ,																	
WAVE 2, SWELL 1, WIND SW 3, BARO 1028. , AIR TEMP. DRY 10.2, WET , CLOUD. TYPE C1, AMT 02, WEATHER B ,																	
0	10.05	32.450	5.30							0	10.05	32.450	5.30	24.97	299	298	0.0000
10	10.32	32.500	5.67							10	10.32	32.500	5.67	24.97	299	299	0.0299
20	10.23	32.500	5.52							20	10.23	32.500	5.52	24.98	298	298	0.0598
30	10.33	32.530	5.50							30	10.33	32.530	5.50	24.99	297	298	0.0894
50	10.15	32.580	5.36							50	10.15	32.580	5.36	25.06	291	291	0.1486
75	9.90	32.580	5.30							75	9.90	32.580	5.30	25.10	287	288	0.2211
83	9.19	32.580	5.02														

310線 海洋觀測 成績
Oceanographic Data. Line 310

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

2月(February)

KOREA , HAN RA SAN , STATION 310-03 , 35-20.1. N, 125-49.3. E, FEB.12.1982, 06:30 KST, DEPTH 28 , COLOR , TRANS. ,
WAVE 3, SWELL 2, WIND N 3, BARO 1029.3, AIR TEMP. DRY 3.0, WET , CLOUD. TYPE , AMT 10, WEATHER C ,
0 4.51 32.720 ***** 0 4.51 32.720 ***** 25.94 207 206 0.0000
10 4.58 32.720 ***** 10 4.58 32.720 ***** 25.93 207 207 0.0207
20 4.40 32.760 ***** 20 4.40 32.760 ***** 25.98 202 202 0.0412
25 4.45 32.780 *****

KOREA , HAN RA SAN , STATION 310-04 , 35-20.1. N, 125-34.5. E, FEB.12.1982, 04:50 KST, DEPTH 57 , COLOR , TRANS. ,
WAVE 3, SWELL 2, WIND N 3, BARO 1028. , AIR TEMP. DRY 3.5, WET , CLOUD. TYPE , AMT 10, WEATHER C ,
0 5.60 32.860 ***** 0 5.60 32.860 ***** 25.93 208 207 0.0000
10 5.55 32.880 ***** 10 5.55 32.880 ***** 25.95 206 205 0.0206
20 5.75 32.880 ***** 20 5.75 32.880 ***** 25.93 208 208 0.0413
30 5.69 32.850 ***** 30 5.69 32.850 ***** 25.91 209 209 0.0623
50 5.71 32.860 ***** 50 5.70 32.858 ***** 25.92 209 209 0.1042

KOREA , HAN RA SAN , STATION 310-05 , 35-20.1. N, 125-24.4. E, FEB.12.1982, 03:00 KST, DEPTH 70 , COLOR , TRANS. ,
WAVE 3, SWELL 2, WIND NE 3, BARO 1028. , AIR TEMP. DRY 3.8, WET , CLOUD. TYPE , AMT 10, WEATHER C ,
0 5.70 32.850 ***** 0 5.70 32.850 ***** 25.91 210 209 0.0000
10 5.80 32.860 ***** 10 5.80 32.860 ***** 25.91 210 210 0.0209
20 5.85 32.880 ***** 20 5.85 32.880 ***** 25.92 209 209 0.0419
30 5.70 32.880 ***** 30 5.70 32.880 ***** 25.93 207 207 0.0628
50 5.70 32.880 ***** 50 5.70 32.880 ***** 25.93 207 208 0.1044
47 5.70 32.920 *****

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA , HAN RA SAN , STATION 310-06 , 35-20.1. N, 125-12.1. E, FEB.12.1982, 01:15 KST, DEPTH 73 , COLOR , TRANS. ,
 WAVE 3, SWELL 2, WIND NE 3, BARO 1029. , AIR TEMP. DRY 3.5, WET , CLOUD. TYPE , AMT 05, WEATHER BC,
 0 5.65 32.880 ***** 0 5.65 32.880 ***** 25.94 207 206 0.0000
 10 5.65 32.860 ***** 10 5.65 32.860 ***** 25.92 208 208 0.0207
 20 5.62 32.880 ***** 20 5.62 32.880 ***** 25.94 206 206 0.0415
 30 5.82 32.900 ***** 30 5.82 32.900 ***** 25.93 207 207 0.0622
 50 5.90 32.880 ***** 50 5.90 32.880 ***** 25.91 210 210 0.1040
 70 5.85 32.880 *****

KOREA , HAN RA SAN , STATION 310-07 , 35-20.1. N, 125-00.0. E, FEB.11.1982, 23:25 KST, DEPTH 82 , COLOR , TRANS. ,
 WAVE 3, SWELL 2, WIND NE 3, BARO 1029. , AIR TEMP. DRY 3.8, WET , CLOUD. TYPE , AMT 05, WEATHER BC,
 0 5.91 32.880 ***** 0 5.91 32.880 ***** 25.91 210 209 0.0000
 10 6.00 32.870 ***** 10 6.00 32.870 ***** 25.89 211 211 0.0210
 20 5.95 32.860 ***** 20 5.95 32.860 ***** 25.89 212 212 0.0422
 30 5.90 32.900 ***** 30 5.90 32.900 ***** 25.92 208 208 0.0633
 50 5.85 32.900 ***** 50 5.85 32.900 ***** 25.93 207 208 0.1049
 70 5.90 32.900 ***** 75 5.89 32.900 ***** 25.93 208 209 0.1571

KOREA , HAN RA SAN , STATION 310-08 , 35-20.1. N, 125-47.9. E, FEB.11.1982, 21:35 KST, DEPTH 88 , COLOR , TRANS. ,
 WAVE 3, SWELL 2, WIND NE 3, BARO 1029.5, AIR TEMP. DRY 4.0, WET , CLOUD. TYPE , AMT 10, WEATHER C ,
 0 5.70 32.950 ***** 0 5.70 32.950 ***** 25.99 202 202 0.0000
 10 5.85 32.940 ***** 10 5.85 32.940 ***** 25.96 204 204 0.0203
 20 5.90 32.940 ***** 20 5.90 32.940 ***** 25.96 205 205 0.0408
 30 6.05 32.940 ***** 30 6.05 32.940 ***** 25.94 207 207 0.0615
 50 6.03 32.920 ***** 50 6.03 32.920 ***** 25.92 208 208 0.1031
 75 6.00 32.900 ***** 75 6.00 32.900 ***** 25.91 209 210 0.1555
 85 6.05 32.920 *****

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY

KOREA , HAN RA SAN , STATION 310-09 , 35-20.1. N, 124-35.6. E, FEB.11.1982, 19:40 KST, DEPTH 93 , COLOR , TRANS. ,
 WAVE 3, SWELL 2, WIND NW 3, BARO 1029. , AIR TEMP. DRY 3.5, WET , CLOUD. TYPE AS, AMT 05, WEATHER BC,
 0 6.25 32.970 ***** 0 6.25 32.970 ***** 25.94 207 207 0.0000
 10 6.22 32.970 ***** 10 6.22 32.970 ***** 25.94 207 206 0.0207
 20 6.25 32.970 ***** 20 6.25 32.970 ***** 25.94 207 207 0.0414
 30 6.18 32.960 ***** 30 6.18 32.960 ***** 25.94 207 207 0.0621
 50 6.30 32.950 ***** 50 6.30 32.950 ***** 25.91 209 209 0.1038
 75 6.20 32.950 ***** 75 6.20 32.950 ***** 25.93 208 208 0.1562
 90 6.20 32.970 *****

KOREA , HAN RA SAN , STATION 310-10 , 35-20.1. N, 124-23.5. E, FEB.11.1982, 17:50 KST, DEPTH 92 , COLOR 3, TRANS. 6.0,
 WAVE 3, SWELL 2, WIND NW 3, BARO 1030. , AIR TEMP. DRY 3.5, WET , CLOUD. TYPE NS, AMT 10, WEATHER C ,
 0 6.38 33.080 ***** 0 6.38 33.080 ***** 26.01 200 200 0.0000
 10 6.50 33.060 ***** 10 6.50 33.060 ***** 25.98 203 203 0.0202
 20 6.40 33.030 ***** 20 6.40 33.030 ***** 25.96 204 204 0.0406
 30 6.48 32.990 ***** 30 6.48 32.990 ***** 25.92 208 208 0.0612
 50 6.47 32.950 ***** 50 6.47 32.950 ***** 25.89 211 211 0.1033
 75 6.53 32.940 ***** 75 6.53 32.940 ***** 25.88 213 213 0.1565
 88 6.40 32.930 *****

4月(April)

KOREA , HAN RA SAN , STATION 310-03 , 35-20.1. N, 125-49.3. E, APR.12.1982, 09:35 KST, DEPTH 30 , COLOR 6, TRANS. 3.0,
 WAVE 2, SWELL 1, WIND NE 2, BARO 1022.5, AIR TEMP. DRY 10.1, WET , CLOUD. TYPE AC, AMT 05, WEATHER BC,
 0 7.58 32.700 ***** 0 7.58 32.700 ***** 25.55 244 244 0.0000
 10 6.32 32.720 ***** 10 6.32 32.720 ***** 25.73 227 226 0.0235

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
20	6.30	32.720	*****							20	6.30	32.720	*****	25.73	226	226	0.0462
25	6.30	32.790	*****														
KOREA ,HAN RA SAN , STATION 310-04 , 35-20.1. N, 125-36.5. E, APR.12.1982, 07:50 KST, DEPTH 63 , COLOR 5, TRANS. 5.0, WAVE 2, SWELL 1, WIND NE 2, BARO 1023. , AIR TEMP. DRY 11.5, WET , CLOUD. TYPE AC, AMT 05, WEATHER BC,																	
0	7.42	32.880	*****							0	7.42	32.880	*****	25.71	228	228	0.0000
10	6.19	32.880	*****							10	6.19	32.880	*****	25.87	213	213	0.0220
20	6.20	32.900	*****							20	6.20	32.900	*****	25.89	212	212	0.0433
30	6.15	32.900	*****							30	6.15	32.900	*****	25.89	211	211	0.0645
40	6.10	32.940	*****							50	6.11	32.926	*****	25.92	209	209	0.1066
KOREA ,HAN RA SAN , STATION 310-05 , 35-20.1. N, 125-24.4. E, APR.12.1982, 06:00 KST, DEPTH 73 , COLOR , TRANS. , WAVE 1, SWELL 1, WIND SE 1, BARO 1022.5, AIR TEMP. DRY 7.5, WET , CLOUD. TYPE AC, AMT 07, WEATHER BC,																	
0	7.52	32.790	*****							0	7.52	32.790	*****	25.63	236	236	0.0000
10	6.80	32.850	*****							10	6.80	32.850	*****	25.77	223	223	0.0229
20	6.65	32.900	*****							20	6.65	32.900	*****	25.83	217	217	0.0450
30	6.60	32.940	*****							30	6.60	32.940	*****	25.87	213	214	0.0665
50	6.08	32.970	*****							50	6.08	32.970	*****	25.96	205	205	0.1085
70	6.08	32.990	*****														
KOREA ,HAN RA SAN , STATION 310-06 , 35-20.1. N, 125-12.1. E, APR.12.1982, 04:15 KST, DEPTH 73 , COLOR , TRANS. , WAVE 1, SWELL 1, WIND SE 1, BARO 1022.5, AIR TEMP. DRY 8.5, WET , CLOUD. TYPE AC, AMT 07, WEATHER BC,																	
0	8.42	32.970	*****							0	8.42	32.970	*****	25.64	236	235	0.0000
10	6.88	32.990	*****							10	6.88	32.990	*****	25.87	213	213	0.0224
20	6.83	32.990	*****							20	6.83	32.990	*****	25.88	213	213	0.0437
30	6.70	33.030	*****							30	6.70	33.030	*****	25.93	208	208	0.0648

OBSERVED										INTERPOLATED					CALCULATED		
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

50 6.58 33.100 *****
70 6.48 33.120 *****

KOREA ,HAN RA SAN , STATION 310-07 , 35-20.1. N, 125-00.0. E, APR.12.1982, 02:25 KST, DEPTH 80 , COLOR , TRANS.
WAVE 1, SWELL 1, WIND SE 1, BARO 1023. , AIR TEMP. DRY 8.3, WET , CLOUD. TYPE AC, AMT 05, WEATHER BC,
0 8.15 33.060 ***** 0 8.15 33.060 ***** 25.75 225 225 0.0000
10 7.12 33.060 ***** 10 7.12 33.060 ***** 25.89 211 211 0.0218
20 6.81 33.030 ***** 20 6.81 33.030 ***** 25.91 209 209 0.0428
30 6.81 33.030 ***** 30 6.81 33.030 ***** 25.91 209 209 0.0638
50 6.62 33.100 ***** 50 6.62 33.100 ***** 25.99 202 202 0.1051
75 6.55 33.120 ***** 75 6.55 33.120 ***** 26.02 199 200 0.1555

KOREA ,HAN RA SAN , STATION 310-08 , 35-20.1. N, 125-47.9. E, APR.12.1982, 00:35 KST, DEPTH 88 , COLOR , TRANS.
WAVE 1, SWELL 1, WIND SE 1, BARO 1023.5, AIR TEMP. DRY 8.3, WET , CLOUD. TYPE AC, AMT 03, WEATHER BC,
0 8.10 33.060 ***** 0 8.10 33.060 ***** 25.75 224 224 0.0000
10 7.01 33.080 ***** 10 7.01 33.080 ***** 25.92 208 208 0.0216
20 6.82 33.080 ***** 20 6.82 33.080 ***** 25.95 206 206 0.0423
30 6.80 33.080 ***** 30 6.80 33.080 ***** 25.95 206 206 0.0630
50 6.75 33.130 ***** 50 6.75 33.130 ***** 26.00 201 202 0.1038
75 6.82 33.170 ***** 75 6.82 33.170 ***** 26.02 199 200 0.1540
83 6.80 33.170 *****

KOREA ,HAN RA SAN , STATION 310-09 , 35-20.1. N, 124-35.6. E, APR.11.1982, 22:40 KST, DEPTH 90 , COLOR , TRANS.
WAVE 1, SWELL 1, WIND SE 1, BARO 1023.5, AIR TEMP. DRY 8.5, WET , CLOUD. TYPE , AMT , WEATHER B ,
0 8.33 33.060 ***** 0 8.33 33.060 ***** 25.72 228 227 0.0000
10 7.38 33.080 ***** 10 7.38 33.080 ***** 25.87 213 213 0.0220
20 7.10 33.080 ***** 20 7.10 33.080 ***** 25.91 209 209 0.0432

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY

30 6.95 33.080 ***** 30 6.95 33.080 ***** 25.93 207 208 0.064
50 6.90 33.100 ***** 50 6.90 33.100 ***** 25.95 205 206 0.1055
75 6.90 33.170 ***** 75 6.90 33.170 ***** 26.01 200 201 0.1564
85 6.85 33.220 *****

KOREA ,HAN RA SAN , STATION 310-10 , 35-20.1. N, 124-23.5. E, APR. 11. 1982, 20:50 KST, DEPTH 92 , COLOR , TRANS. ,
WAVE 1, SWELL 1, WIND SE 1, BARO 1023. , AIR TEMP. DRY 8.7, WET , CLOUD. TYPE , AMT , WEATHER B ,
0 8.75 33.060 ***** 0 8.75 33.060 ***** 25.66 234 233 0.0000
10 7.31 33.080 ***** 10 7.31 33.080 ***** 25.88 212 212 0.0223
20 7.15 33.120 ***** 20 7.15 33.120 ***** 25.94 207 207 0.0433
30 7.05 33.130 ***** 30 7.05 33.130 ***** 25.96 205 205 0.0639
50 7.03 33.150 ***** 50 7.03 33.150 ***** 25.98 203 204 0.1049
75 6.98 33.150 ***** 75 6.98 33.150 ***** 25.98 203 203 0.1559
87 6.92 33.150 *****

6月(June)

KOREA ,HAN RA SAN , STATION 310-03 , 35-20.1. N, 125-49.3. E, JUN. 8. 1982, 09:10 KST, DEPTH 26 , COLOR 6, TRANS. 5.0,
WAVE 1, SWELL 1, WIND SW 1, BARO 1012. , AIR TEMP. DRY 17.0, WET , CLOUD. TYPE , AMT 00, WEATHER F ,
0 15.80 33.240 ***** 0 15.80 33.240 ***** 24.46 348 348 0.0000
10 12.95 33.250 ***** 10 12.95 33.250 ***** 25.06 290 290 0.0319
20 12.31 33.260 ***** 20 12.31 33.260 ***** 25.20 277 278 0.0603
23 12.30 33.300 *****

KOREA ,HAN RA SAN , STATION 310-04 , 35-20.1. N, 125-36.5. E, JUN. 8. 1982, 07:30 KST, DEPTH 56 , COLOR 5, TRANS. 7.0,
WAVE 1, SWELL 1, WIND SW 1, BARO 1012.5, AIR TEMP. DRY 16.0, WET , CLOUD. TYPE , AMT 00, WEATHER F ,
0 18.20 33.060 ***** 0 18.20 33.060 ***** 23.76 415 414 0.0000

OBSERVED										INTERPOLATED					CALCULATED		
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

10	14.17	33.240	*****							10	14.17	33.240	*****	24.81	314	314	0.0364
20	13.66	33.280	*****							20	13.66	33.280	*****	24.94	301	301	0.0673
30	11.47	33.330	*****							30	11.47	33.330	*****	25.41	257	258	0.0953
51	10.26	33.400	*****							50	10.31	33.396	*****	25.66	233	234	0.1445

KOREA , HAN RA SAN , STATION 310-03 , 35-20.1. N, 125-24.4. E, JUN. 8.1982, 05:45 KST, DEPTH 70 , COLOR , TRANS. ,

WAVE	1, SWELL	1, WIND SW	1, BARO 1013. , AIR TEMP. DRY	15.8, WET													
0	18.19	32.660	*****							0	18.19	32.660	*****	23.45	443	443	0.0900
10	14.31	32.850	*****							10	14.31	32.850	*****	24.48	346	346	0.0394
20	12.21	33.040	*****							20	12.21	33.040	*****	25.04	292	292	0.0714
30	9.68	33.080	*****							30	9.68	33.080	*****	25.52	246	246	0.0983
50	9.01	33.220	*****							50	9.01	33.220	*****	25.74	226	226	0.1457
65	8.98	33.280	*****														

KOREA , HAN RA SAN , STATION 310-06 , 35-20.1. N, 125-12.1. E, JUN. 8.1982, 04:05 KST, DEPTH 72 , COLOR , TRANS. ,

WAVE	1, SWELL	1, WIND SW	1, BARO 1013.5, AIR TEMP. DRY	16.0, WET													
0	18.82	32.990	*****							0	18.82	32.990	*****	23.55	434	434	0.0690
10	15.40	32.990	*****							10	15.40	32.990	*****	24.35	358	358	0.0396
20	12.20	33.010	*****							20	12.20	33.010	*****	25.02	294	294	0.0722
30	8.82	33.150	*****							30	8.82	33.150	*****	25.72	228	228	0.0984
50	7.49	33.240	*****							50	7.49	33.240	*****	25.98	203	203	0.1416
67	7.44	33.260	*****														

KOREA , HAN RA SAN , STATION 310-07 , 35-20.1. N, 125-00.0. E, JUN. 8.1982, 02:20 KST, DEPTH 82 , COLOR , TRANS. ,

WAVE	1, SWELL	1, WIND SW	1, BARO 1013.3, AIR TEMP. DRY	17.5, WET													
0	19.00	32.880	*****							0	19.00	32.880	*****	23.42	447	446	0.0000
10	16.41	32.880	*****							10	16.41	32.880	*****	24.04	387	387	0.0417

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY

20	9.83	32.970	*****							20	9.83	32.970	*****	25.41	257	257	0.0739
30	7.30	32.970	*****							30	7.30	32.970	*****	25.80	220	220	0.0978
50	7.01	33.030	*****							50	7.01	33.030	*****	25.88	212	212	0.1412
77	7.01	33.120	*****							75	7.01	33.113	*****	25.95	206	206	0.1937

KOREA , HAN RA SAN , STATION 310-08 , 35-20.1. N, 125-47.9. E, JUN. 8.1982, 00:35 KST, DEPTH 87 , COLOR , TRANS. ,																	
WAVE 1, SWELL 1, WIND S 1, BARO 1013. , AIR TEMP. DRY 18.5, WET , CLOUD. TYPE , AMT 00, WEATHER B ,																	
0	19.19	32.850	*****							0	19.19	32.850	*****	23.35	453	453	0.0000
10	17.69	32.830	*****							10	17.69	32.830	*****	23.70	420	420	0.0436
20	14.34	33.010	*****							20	14.34	33.010	*****	24.60	334	335	0.0814
30	7.24	33.010	*****							30	7.24	33.010	*****	25.84	216	217	0.1090
50	7.00	33.010	*****							50	7.00	33.010	*****	25.87	213	214	0.1521
75	7.01	33.040	*****							75	7.01	33.040	*****	25.89	211	212	0.2054
83	7.01	33.040	*****														

KOREA , HAN RA SAN , STATION 310-09 , 35-20.1. N, 124-35.6. E, JUN. 7.1982, 22:40 KST, DEPTH 92 , COLOR , TRANS. ,																	
WAVE 1, SWELL 1, WIND SW 1, BARO 1013. , AIR TEMP. DRY 19.2, WET , CLOUD. TYPE C1, AMT 03, WEATHER BC,																	
0	18.91	32.860	*****							0	18.91	32.860	*****	23.43	446	446	0.0000
10	18.34	32.950	*****							10	18.34	32.950	*****	23.64	476	426	0.0436
20	12.73	32.950	*****							20	12.73	32.950	*****	24.88	308	308	0.0803
30	7.51	33.010	*****							30	7.51	33.010	*****	25.80	220	220	0.1068
50	6.96	33.040	*****							50	6.96	33.040	*****	25.90	211	211	0.1500
75	7.04	33.080	*****							75	7.04	33.080	*****	25.92	209	209	0.2026
87	7.07	33.120	*****														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA , HAN RA SAN , STATION 310-10 , 35-20.1. N, 124-23.5. E, JUN. 7.1982, 20:50 KST, DEPTH 90 , COLOR , TRANS.

WAVE 2, SWELL 1, WIND SW 2, BARO 1011.7, AIR TEMP. DRY 19.2, WET , CLOUD. TYPE CI, AMT 02, WEATHER B ,

0	18.90	32.810	*****							0	18.90	32.810	*****	23.39	449	449	0.0000
10	17.72	32.950	*****							10	17.72	32.950	*****	23.79	411	411	0.0430
20	14.48	32.950	*****							20	14.48	32.950	*****	24.52	342	342	0.0807
30	7.15	32.990	*****							30	7.15	32.990	*****	25.83	217	217	0.1087
50	7.04	33.010	*****							50	7.04	33.010	*****	25.86	214	214	0.1519
75	7.05	33.060	*****							75	7.05	33.060	*****	25.90	210	211	0.2052
85	6.97	33.210	*****														

8月(August)

KOREA , HAN RA SAN , STATION 310-03 , 35-20.1. N, 125-49.3. E, AUG.11.1982, 08:25 KST, DEPTH 27 , COLOR 6, TRANS. 5.0,

WAVE 2, SWELL 1, WIND S 3, BARO 1012.5, AIR TEMP. DRY 25.5, WET , CLOUD. TYPE , AMT 00, WEATHER B ,

0	27.22	31.140	*****							0	27.22	31.140	*****	19.77	797	796	0.0000
10	21.97	32.300	*****							10	21.97	32.300	*****	22.20	564	564	0.0680
20	20.15	32.390	*****							20	20.15	32.390	*****	22.75	510	511	0.1218
24	18.03	32.390	*****														

KOREA , HAN RA SAN , STATION 310-04 , 35-20.1. N, 125-36.5. E, AUG.11.1982, 06:45 KST, DEPTH 56 , COLOR , TRANS.

WAVE 2, SWELL 1, WIND S 3, BARO 1012. , AIR TEMP. DRY 26.0, WET , CLOUD. TYPE , AMT 00, WEATHER B ,

0	27.04	32.200	*****							0	27.04	32.200	*****	20.62	715	715	0.0000
10	24.10	32.360	*****							10	24.10	32.360	*****	21.64	617	617	0.0666
20	19.51	32.390	*****							20	19.51	32.390	*****	22.92	495	495	0.1223
30	18.26	32.470	*****							30	18.26	32.470	*****	23.29	459	460	0.1700
51	11.30	32.590	*****							50	11.63	32.584	*****	24.80	316	316	0.2477

OBSERVED										INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY	
KOREA ,HAN RA SAN , STATION 310-05 , 35-20.1. N, 125-24.4. E, AUG.11.1982, 04:55 KST, DEPTH 70 , COLOR , TRANS.																		
WAVE 1, SWELL 3, WIND S 2, BARO 1012.5, AIR TEMP. DRY 25.7, WET , CLOUD. TYPE , AMT 00, WEATHER B ,																		
0	27.15	32.180	*****							0	27.15	32.180	*****	20.57	720	719	0.0000	
10	26.18	32.230	*****							10	26.18	32.230	*****	20.91	687	687	0.0703	
20	20.71	32.340	*****							20	20.71	32.340	*****	22.57	528	528	0.1311	
30	17.90	32.390	*****							30	17.90	32.390	*****	23.32	456	457	0.1804	
50	15.65	32.570	*****							50	15.65	32.570	*****	23.98	394	395	0.2657	
65	13.40	32.740	*****															
KOREA ,HAN RA SAN , STATION 310-06 , 35-20.1. N, 125-12.1. E, AUG.11.1982, 03:10 KST, DEPTH 71 , COLOR , TRANS.																		
WAVE 2, SWELL 1, WIND SE 3, BARO 1012.3, AIR TEMP. DRY 26.0, WET , CLOUD. TYPE C1, AMT 02, WEATHER B ,																		
0	27.60	32.210	*****							0	27.60	32.210	*****	20.45	731	731	0.0000	
10	26.56	32.290	*****							10	26.56	32.290	*****	20.84	694	694	0.0712	
20	20.36	32.380	*****							20	20.36	32.380	*****	22.69	516	517	0.1318	
30	16.79	32.500	*****							30	16.79	32.500	*****	23.66	423	424	0.1789	
50	12.05	32.650	*****							50	12.05	32.650	*****	24.77	318	318	0.2532	
67	11.83	32.760	*****															
KOREA ,HAN RA SAN , STATION 310-07 , 35-20.1. N, 125-00.0. E, AUG.11.1982, 01:20 KST, DEPTH 81 , COLOR , TRANS.																		
WAVE 2, SWELL 1, WIND SE 3, BARO 1013. , AIR TEMP. DRY 26.5, WET , CLOUD. TYPE C1, AMT 05, WEATHER BC,																		
0	26.97	32.340	*****							0	26.97	32.340	*****	20.75	703	702	0.0000	
10	23.80	32.390	*****							10	23.80	32.390	*****	21.75	607	607	0.0658	
20	18.78	32.500	*****							20	18.78	32.500	*****	23.19	469	469	0.1193	
30	15.28	32.570	*****							30	15.28	32.570	*****	24.06	386	386	0.1621	
50	11.71	32.770	*****							50	11.71	32.770	*****	24.93	303	304	0.2312	
76	11.23	33.040	*****							75	11.24	33.029	*****	25.21	276	277	0.3039	

OBSERVED										INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY	

KOREA ,HAN RA SAN , STATION 310-08 , 35-20.1. N, 125-47.9. E, AUG.10.1982, 23130 KST, DEPTH 85 , COLOR , TRANS. ,
 WAVE 2, SWELL 1, WIND E 3, BARO 1012.8, AIR TEMP. DRY 26.7, WET , CLOUD. TYPE CI, AMT O3, WEATHER BC,
 0 26.75 32.500 ***** 0 26.75 32.500 ***** 20.93 684 684 0.0000
 10 26.02 32.480 ***** 10 26.02 32.480 ***** 21.15 664 664 0.0674
 20 22.15 32.470 ***** 20 22.15 32.470 ***** 22.27 556 556 0.1285
 30 18.74 32.660 ***** 30 18.74 32.660 ***** 23.32 456 457 0.1792
 50 11.32 32.830 ***** 50 11.32 32.830 ***** 25.05 292 292 0.2542
 75 9.62 33.030 ***** 75 9.62 33.030 ***** 25.49 249 250 0.3222
 80 9.66 33.080 *****

KOREA ,HAN RA SAN , STATION 310-09 , 35-20.1. N, 124-35.6. E, AUG.10.1982, 21135 KST, DEPTH 90 , COLOR , TRANS. ,
 WAVE 2, SWELL 2, WIND E 3, BARO 1012.5, AIR TEMP. DRY 27.1, WET , CLOUD. TYPE CI, AMT O4, WEATHER BC,
 0 26.70 32.480 ***** 0 26.70 32.480 ***** 20.94 684 684 0.0000
 10 23.16 32.470 ***** 10 23.16 32.470 ***** 21.99 583 583 0.0634
 20 19.96 32.740 ***** 20 19.96 32.740 ***** 23.07 480 481 0.1166
 30 15.74 32.740 ***** 30 15.74 32.740 ***** 24.09 383 384 0.1599
 50 8.34 32.770 ***** 50 8.34 32.770 ***** 25.49 249 250 0.2233
 75 8.38 32.880 ***** 75 8.38 32.880 ***** 25.57 242 243 0.2850
 85 8.16 33.120 *****

KOREA ,HAN RA SAN , STATION 310-10 , 35-20.1. N, 124-23.5. E, AUG.10.1982, 19145 KST, DEPTH 90 , COLOR , TRANS. ,
 WAVE 2, SWELL 1, WIND E 3, BARO 1012.5, AIR TEMP. DRY 28.0, WET , CLOUD. TYPE CI, AMT O3, WEATHER BC,
 0 26.94 32.520 ***** 0 26.94 32.520 ***** 20.89 689 689 0.0000
 10 26.45 32.480 ***** 10 26.45 32.480 ***** 21.01 677 677 0.0683
 20 21.90 32.480 ***** 20 21.90 32.480 ***** 22.35 549 549 0.1296
 30 11.55 32.590 ***** 30 11.55 32.590 ***** 24.82 313 314 0.1728

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

50 10.22 32.740 *****
75 8.59 32.880 *****
85 7.43 33.120 *****

10月(October)

KOREA , HAN RA SAN , STATION 310-03 , 35-20.1. N, 125-49.3. E, OCT.10.1982, 13:10 KST, DEPTH 28 , COLOR 5, TRANS. 8.0,
WAVE 1, SWELL , WIND SE 1, BARO 1026. , AIR TEMP. DRY 21.4, WET , CLOUD. TYPE , AMT 00, WEATHER B ,
0 20.16 32.540 5.41 0 20.16 32.540 5.41 22.86 500 499 0.0000
10 20.36 32.540 5.30 10 20.36 32.540 5.30 22.81 505 505 0.0502
20 19.69 32.540 5.19 20 19.69 32.540 5.19 22.99 488 488 0.0999
25 19.09 32.540 5.18

KOREA , HAN RA SAN , STATION 310-04 , 35-20.1. N, 125-36.5. E, OCT.10.1982, 11:30 KST, DEPTH 58 , COLOR 5, TRANS. 11.0,
WAVE 1, SWELL , WIND SE 1, BARO 1026.5, AIR TEMP. DRY 21.1, WET , CLOUD. TYPE , AMT 00, WEATHER B ,
0 20.22 32.540 5.67 0 20.22 32.540 5.67 22.85 501 501 0.0000
10 19.71 32.590 5.69 10 19.71 32.590 5.69 23.02 485 485 0.0493
20 19.11 32.560 5.41 20 19.11 32.560 5.41 23.15 473 473 0.0972
30 17.91 32.630 5.23 30 17.91 32.630 5.23 23.50 439 440 0.1429
53 17.41 32.660 4.96 50 17.47 32.656 4.99 23.62 427 428 0.2298

KOREA , HAN RA SAN , STATION 310-05 , 35-20.1. N, 125-24.4. E, OCT.10.1982, 09:40 KST, DEPTH 71 , COLOR 5, TRANS. 12.0,
WAVE 1, SWELL , WIND SE 1, BARO 1027. , AIR TEMP. DRY 21.0, WET , CLOUD. TYPE , AMT 00, WEATHER B ,
0 20.53 32.000 5.69 0 20.53 32.000 5.69 22.36 548 548 0.0000
10 20.51 32.050 5.71 10 20.51 32.050 5.71 22.40 544 544 0.0546
20 18.79 32.340 5.43 20 18.79 32.340 5.43 23.06 481 481 0.1059
30 16.81 32.520 5.31 30 16.81 32.520 5.31 23.67 422 423 0.1512

OBSERVED										INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY	

50 15.66 32.680 5.05
66 15.46 32.740 4.98

KOREA ,HAN RA SAN , STATION 310-06 , 35-20.1. N, 125-12.1. E, OCT.10.1982, 07:55 KST, DEPTH 72 , COLOR , TRANS. ,
WAVE 1, SWELL , WIND SE 1, BARO 1025. , AIR TEMP. DRY 20.8, WET , CLOUD. TYPE , AMT 00, WEATHER B ,
0 20.54 32.070 5.49 0 20.54 32.070 5.49 22.41 543 543 0.0000
10 20.11 32.200 5.69 10 20.11 32.200 5.69 22.62 523 523 0.0533
20 18.60 32.340 5.41 20 18.60 32.340 5.41 23.11 476 477 0.1034
30 17.10 32.570 5.41 30 17.10 32.570 5.41 23.64 425 426 0.1485
50 16.27 32.650 5.14 50 16.27 32.650 5.14 23.90 401 402 0.2314
67 15.43 32.860 4.99

KOREA ,HAN RA SAN , STATION 310-07 , 35-20.1. N, 125-00.0. E, OCT.10.1982, 06:25 KST, DEPTH 82 , COLOR , TRANS. ,
WAVE 1, SWELL , WIND SE 1, BARO 1024. , AIR TEMP. DRY 20.1, WET , CLOUD. TYPE , AMT 00, WEATHER B ,
0 20.80 32.110 5.65 0 20.80 32.110 5.65 22.37 547 547 0.0000
10 20.51 32.180 5.55 10 20.51 32.180 5.55 22.50 535 535 0.0541
20 19.21 32.540 5.24 20 19.21 32.540 5.24 23.11 476 477 0.1047
30 17.17 32.610 5.35 30 17.17 32.610 5.35 23.66 424 424 0.1498
50 11.91 32.860 5.19 50 11.91 32.860 5.19 24.96 300 300 0.2224
77 10.78 32.900 5.10 75 10.86 32.877 5.10 25.18 279 280 0.2951

KOREA ,HAN RA SAN , STATION 310-08 , 35-20.1. N, 125-47.9. E, OCT.10.1982, 04:20 KST, DEPTH 87 , COLOR , TRANS. ,
WAVE 2, SWELL 1, WIND SE 2, BARO 1023. , AIR TEMP. DRY 19.8, WET , CLOUD. TYPE , AMT 00, WEATHER B ,
0 21.70 31.690 5.92 0 21.70 31.690 5.92 21.81 601 600 0.0000
10 21.11 31.780 5.70 10 21.11 31.780 5.70 22.04 579 579 0.0590
20 20.05 32.210 5.62 20 20.05 32.210 5.62 22.64 521 521 0.1140

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

30	18.43	32.380	5.50							30	18.43	32.380	5.50	23.18	469	470	0.1636
50	9.76	32.850	5.19							50	9.76	32.850	5.19	25.33	265	265	0.2373
75	9.63	32.920	5.12							75	9.63	32.920	5.12	25.41	257	258	0.3028
82	9.64	32.940	5.03														

KOREA ,HAN RA SAN , STATION 310-09 , 35-20.1. N, 124-35.6. E, OCT.10.1982, 02:25 KST, DEPTH 92 , COLOR , TRANS. ,

WAVE 2, SWELL 1, WIND SE 2, BARO 1023. , AIR TEMP. DRY 19.6, WET , CLOUD. TYPE , AMT 00, WEATHER B ,

0	21.80	31.550	5.81							0	21.80	31.550	5.81	21.68	613	613	0.0000
10	21.22	31.600	5.71							10	21.22	31.600	5.71	21.87	595	595	0.0604
20	21.22	31.760	5.44							20	21.22	31.760	5.44	21.99	583	583	0.1194
30	19.00	32.410	5.36							30	19.00	32.410	5.36	23.06	481	481	0.1727
50	10.91	32.900	5.20							50	10.91	32.900	5.20	25.17	279	280	0.2489
75	9.02	32.950	5.16							75	9.02	32.950	5.16	25.53	246	247	0.3149
87	8.97	32.950	4.91														

KOREA ,HAN RA SAN , STATION 310-10 , 35-20.1. N, 124-23.5. E, OCT.10.1982, 00:35 KST, DEPTH 92 , COLOR , TRANS. ,

WAVE 2, SWELL 1, WIND SE 2, BARO 1022. , AIR TEMP. DRY 19.8, WET , CLOUD. TYPE , AMT 00, WEATHER B ,

0	21.80	31.820	5.59							0	21.80	31.820	5.59	21.88	594	594	0.0000
10	21.14	31.800	5.36							10	21.14	31.800	5.36	22.04	578	578	0.0586
20	20.20	32.480	5.19							20	20.20	32.480	5.19	22.81	505	505	0.1128
30	19.22	32.790	5.18							30	19.22	32.790	5.18	23.30	458	459	0.1611
50	11.58	32.940	5.10							50	11.58	32.940	5.10	25.12	284	285	0.2356
75	8.86	32.980	5.03							75	8.86	32.980	5.03	25.58	241	242	0.3017
87	8.72	33.020	4.99														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY

12月(December)

10KFA .HAN RA SAN . STATION 310-03 , 35-20.1. N, 125-49.3. E, DEC.21.1982, 16:15 KST, DEPTH 27 , COLOR 8, TRANS. 1.5.
 WAVE 3, SWELL 2, WIND SW 4, BARO 1023. , AIR TEMP. DRY 9.6, WET , CLOUD. TYPE AS, AMT 07, WEATHER BC,
 0 10.51 32.450 5.57 0 10.51 32.450 5.57 24.89 306 306 0.0000
 10 10.23 32.510 5.60 10 10.23 32.510 5.60 24.99 297 297 0.0301
 20 9.74 32.610 5.55 20 9.74 32.610 5.55 25.15 282 282 0.0591
 24 9.70 32.620 5.40

KOREA .HAN RA SAN , STATION 310-04 , 35-20.1. N, 125-36.5. E, DEC.21.1982, 14:35 KST, DEPTH 58 , COLOR 8, TRANS. 1.8,
 WAVE 3, SWELL 2, WIND SW 4, BARO 1023. , AIR TEMP. DRY 9.5, WET , CLOUD. TYPE AS, AMT 06, WEATHER BC,
 0 11.43 32.560 5.25 0 11.43 32.560 5.25 24.82 313 313 0.0000
 10 11.52 32.570 5.40 10 11.52 32.570 5.40 24.81 314 314 0.0314
 20 11.63 32.610 5.51 20 11.63 32.610 5.51 24.82 313 313 0.0628
 30 11.50 32.610 5.33 30 11.50 32.610 5.33 24.84 311 311 0.0941
 53 11.64 32.740 5.01 50 11.62 32.723 5.05 24.91 305 305 0.1558

KOREA .HAN RA SAN , STATION 310-05 , 35-20.1. N, 125-24.4. E, DEC.21.1982, 12:50 KST, DEPTH 70 , COLOR 8, TRANS. 2.0,
 WAVE 3, SWELL 2, WIND SW 4, BARO 1024. , AIR TEMP. DRY 9.6, WET , CLOUD. TYPE AS, AMT 07, WEATHER BC,
 0 11.74 32.570 5.41 0 11.74 32.570 5.41 24.77 318 318 0.0000
 10 11.62 32.570 5.51 10 11.62 32.570 5.51 24.79 316 316 0.0317
 20 11.73 32.590 5.51 20 11.73 32.590 5.51 24.79 316 317 0.0633
 30 11.65 32.590 5.41 30 11.65 32.590 5.41 24.80 315 315 0.0950
 50 11.60 32.590 5.39 50 11.69 32.590 5.39 24.79 316 316 0.1583
 66 11.72 32.860 5.40

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY
KOREA , HAN RA SAN , STATION 310-06 , 35-20.1. N, 125-12.1. E, DEC.21.1982, 11:10 KST, DEPTH 72 , COLOR 8, TRANS. 2.0,																	
WAVE 3, SWELL 2, WIND SW 4, BARO 1024.5, AIR TEMP. DRY 12.3, WET , CLOUD. TYPE AS, AMT 07, WEATHER BC,																	
0	11.34	32.610	5.20							0	11.34	32.610	5.20	24.87	308	308	0.0000
10	11.31	32.630	5.41							10	11.31	32.630	5.41	24.89	306	306	0.0307
20	11.30	32.660	5.62							20	11.30	32.660	5.62	24.92	304	304	0.0612
30	11.41	32.700	5.40							30	11.41	32.700	5.40	24.93	303	303	0.0916
50	11.28	32.700	5.50							50	11.28	32.700	5.50	24.95	300	301	0.1522
67	11.28	32.760	5.40														
KOREA , HAN RA SAN , STATION 310-07 , 35-20.1. N, 125-00.0. E, DEC.21.1982, 09:25 KST, DEPTH 82 , COLOR 7, TRANS. 3.0,																	
WAVE 3, SWELL 2, WIND SW 4, BARO 1025. , AIR TEMP. DRY 10.0, WET , CLOUD. TYPE AS, AMT 06, WEATHER BC,																	
0	11.09	32.650	5.20							0	11.09	32.650	5.20	24.95	301	301	0.0000
10	11.03	32.650	5.60							10	11.03	32.650	5.60	24.96	300	300	0.0300
20	11.11	32.660	5.60							20	11.11	32.660	5.60	24.95	301	301	0.0601
30	11.00	32.680	5.41							30	11.00	32.680	5.41	24.99	297	298	0.0901
50	11.01	32.680	5.41							50	11.01	32.680	5.41	24.99	297	298	0.1497
77	10.64	32.720	5.40							75	10.66	32.717	5.40	25.07	289	290	0.2234
KOREA , HAN RA SAN , STATION 310-08 , 35-20.1. N, 125-47.9. E, DEC.21.1982, 07:35 KST, DEPTH 87 , COLOR , TRANS. ,																	
WAVE 3, SWELL 2, WIND SW 4, BARO 1025.5, AIR TEMP. DRY 10.5, WET , CLOUD. TYPE AS, AMT 07, WEATHER BC,																	
0	10.50	32.660	5.54							0	10.50	32.660	5.54	25.06	290	290	0.0000
10	10.70	32.660	5.51							10	10.70	32.660	5.51	25.02	294	294	0.0292
20	10.62	32.660	5.49							20	10.62	32.660	5.49	25.04	292	292	0.0585
30	10.64	32.660	5.69							30	10.64	32.660	5.69	25.03	293	293	0.0879
50	10.75	32.680	5.50							50	10.75	32.680	5.50	25.03	293	294	0.1466
75	10.62	32.700	5.42							75	10.62	32.700	5.42	25.07	289	291	0.2198
82	9.71	32.850	5.40														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA ,HAN RA SAN , STATION 310-09 , 35-20.1. N, 124-35.6. E, DEC.21.1982, 05:40 KST, DEPTH 92 , COLOR , TRANS.
 WAVE 3, SWELL 2, WIND SW 4, BARO 1026. , AIR TEMP. DRY 9.8, WET , CLOUD. TYPE CI, AMT 04, WEATHER BC,
 0 10.50 32.660 5.81 0 10.50 32.660 5.81 25.06 290 290 0.0000
 10 10.62 32.660 5.69 10 10.62 32.660 5.69 25.04 292 292 0.0291
 20 10.50 32.630 5.59 20 10.50 32.630 5.59 25.04 293 293 0.0584
 30 10.56 32.630 5.60 30 10.56 32.630 5.60 25.03 294 294 0.0878
 50 10.48 32.660 5.50 50 10.48 32.660 5.50 25.06 290 291 0.1464
 75 9.73 32.680 5.45 75 9.73 32.680 5.45 25.20 277 278 0.2175
 87 9.69 32.660 5.45

KOREA ,HAN RA SAN , STATION 310-10 , 35-20.1. N, 124-23.5. E, DEC.21.1982, 03:50 KST, DEPTH 90 , COLOR , TRANS.
 WAVE 2, SWELL 1, WIND SW 3, BARO 1027. , AIR TEMP. DRY 10.1, WET , CLOUD. TYPE CI, AMT 03, WEATHER BC,
 0 10.40 32.540 5.61 0 10.40 32.540 5.61 24.98 298 297 0.0000
 10 10.53 32.630 5.63 10 10.53 32.630 5.63 25.03 293 293 0.0295
 20 10.48 32.660 5.70 20 10.48 32.660 5.70 25.06 290 290 0.0587
 30 10.41 32.660 5.61 30 10.41 32.660 5.61 25.07 289 289 0.0877
 50 10.52 32.680 5.56 50 10.52 32.680 5.56 25.07 289 290 0.1458
 75 9.15 32.680 5.40 75 9.15 32.680 5.40 25.30 268 269 0.2157
 85 9.15 32.680 5.39

311線 海洋觀測 成績

Oceanographic Data. Line 311

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

2月(February)

KOREA , HAN RA SAN , STATION 311-04 , 34-43.0. N, 125-43.9. E, FEB.12.1982, 11:40 KST, DEPTH 35 , COLOR 7, TRANS. 2.0,																	
WAVE 3, SWELL 2, WIND NW 3, BARO 1031. , AIR TEMP. DRY 6.8, WET , CLOUD. TYPE AS, AMT 10, WEATHER C ,																	
0	3.05	32.560	*****							0	3.05	32.560	*****	25.95	205	205	0.0000
10	3.05	32.600	*****							10	3.05	32.600	*****	25.99	202	202	0.0204
20	3.22	32.650	*****							20	3.22	32.650	*****	26.01	200	200	0.0405
32	3.25	32.630	*****							30	3.24	32.633	*****	25.99	201	201	0.0606
KOREA , HAN RA SAN , STATION 311-05 , 34-43.0. N, 125-31.9. E, FEB.12.1982, 13:20 KST, DEPTH 78 , COLOR 5, TRANS. 6.0,																	
WAVE 3, SWELL 2, WIND NW 3, BARO 1031.5, AIR TEMP. DRY 7.2, WET , CLOUD. TYPE AS, AMT 10, WEATHER C ,																	
0	5.10	32.880	*****							0	5.10	32.880	*****	26.00	201	200	0.0000
10	5.32	32.950	*****							10	5.32	32.950	*****	26.03	198	198	0.0199
20	5.65	32.970	*****							20	5.65	32.970	*****	26.01	200	200	0.0398
29	5.65	32.970	*****							30	5.65	32.970	*****	26.01	200	200	0.0599
49	5.80	32.980	*****							50	5.79	32.980	*****	26.00	201	201	0.1001
74	5.70	32.990	*****														
KOREA , HAN RA SAN , STATION 311-06 , 34-43.0. N, 125-19.4. E, FEB.14.1982, 10:00 KST, DEPTH 92 , COLOR 7, TRANS. 2.0,																	
WAVE 4, SWELL 3, WIND N 4, BARO 1030.5, AIR TEMP. DRY 6.4, WET , CLOUD. TYPE AS, AMT 02, WEATHER B ,																	
0	5.78	32.900	*****							0	5.78	32.900	*****	25.94	207	206	0.0000
10	5.80	32.910	*****							10	5.80	32.910	*****	25.94	206	206	0.0206
20	5.65	32.920	*****							20	5.65	32.920	*****	25.97	204	204	0.0411
30	5.79	33.040	*****							30	5.79	33.040	*****	26.05	196	196	0.0612
50	5.72	33.040	*****							50	5.72	33.040	*****	26.06	196	196	0.1005
74	6.09	33.030	*****							75	6.07	33.036	*****	26.01	200	201	0.1502
89	5.86	33.120	*****														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY
KOREA , HAN RA SAN , STATION 311-07 , 34-43.0. N, 125-00.0. E, FEB.15.1982, 12:20 KST, DEPTH 88 , COLOR 6, TRANS. 4.0, WAVE 3, SWELL 2, WIND NW 3, BARO 1030. , AIR TEMP. DRY 7.2, WET , CLOUD. TYPE NS, AMT 07, WEATHER BC,																	
0	7.51	32.970	*****							0	7.51	32.970	*****	25.77	223	223	0.0000
10	6.38	33.040	*****							10	6.38	33.040	*****	25.97	203	203	0.0213
20	6.30	33.060	*****							20	6.30	33.060	*****	26.00	201	201	0.0415
30	6.36	33.100	*****							30	6.36	33.100	*****	26.02	199	199	0.0616
50	6.28	33.120	*****							50	6.28	33.120	*****	26.05	196	196	0.1012
75	6.40	33.140	*****							75	6.40	33.140	*****	26.05	196	197	0.1504
85	6.25	33.160	*****														
KOREA , HAN RA SAN , STATION 311-08 , 34-43.0. N, 124-47.9. E, FEB.15.1982, 14:15 KST, DEPTH 92 , COLOR 6, TRANS. 3.0, WAVE 2, SWELL 1, WIND W 2, BARO 1029. , AIR TEMP. DRY 7.0, WET , CLOUD. TYPE NS, AMT 05, WEATHER BC,																	
0	6.92	33.050	*****							0	6.92	33.050	*****	25.91	209	209	0.0000
10	7.03	33.060	*****							10	7.03	33.060	*****	25.91	210	210	0.0209
20	6.85	33.100	*****							20	6.85	33.100	*****	25.96	205	205	0.0417
30	6.91	33.120	*****							30	6.91	33.120	*****	25.97	204	204	0.0622
50	6.86	33.190	*****							50	6.86	33.190	*****	26.03	198	198	0.1025
75	6.90	33.200	*****							75	6.90	33.200	*****	26.03	198	199	0.1523
89	6.84	33.260	*****														
KOREA , HAN RA SAN , STATION 311-09 , 34-43.0. N, 124-35.8. E, FEB.15.1982, 16:05 KST, DEPTH 88 , COLOR 6, TRANS. 3.0, WAVE 2, SWELL 1, WIND W 2, BARO 1028. , AIR TEMP. DRY 6.8, WET , CLOUD. TYPE NS, AMT 05, WEATHER BC,																	
0	7.88	33.120	*****							0	7.88	33.120	*****	25.83	217	216	0.0000
10	7.11	33.120	*****							10	7.11	33.120	*****	25.94	206	206	0.0211
20	7.05	33.130	*****							20	7.05	33.130	*****	25.96	205	205	0.0418
30	7.14	33.130	*****							30	7.14	33.130	*****	25.95	206	206	0.0624

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

507.0233.140*****

757.2233.120*****

857.1033.210*****

2042040.1035

2082090.1552

KOREA

STATION 311-10 , 34-43.0. N, 124-23.4. E. FEB.15,1982. 18:00 KST, DEPTH 84 , COLOR 6, TRANS. 2.5,

WAVE 3, SWELL 2, WIND NE 3, BARO 1028. , AIR TEMP. DRY 5.8, WET , CLOUD. TYPE AS, AMT 05, WEATHER BC,

07.6033.220*****

107.0233.200*****

207.0033.190*****

307.1133.170*****

507.0533.170*****

807.1233.170*****

2052062050.0000

1991990.0202

2002000.0402

2032030.0604

2022020.1010

2032030.1519

4月(April)

KOREA

STATION 311-04 , 34-43.0. N, 125-43.9. E, APR.12,1982, 14:50 KST, DEPTH 34 , COLOR 6, TRANS. 3.0,

WAVE 2, SWELL 1, WIND NE 2, BARO 1021.5, AIR TEMP. DRY 12.5, WET , CLOUD. TYPE AS, AMT 10, WEATHER C ,

07.8032.630*****

107.5032.700*****

206.8532.830*****

306.8032.950*****

2522520.0000

2432430.0247

2252250.0482

2152150.0702

KOREA

STATION 311-05 , 34-43.0. N, 125-31.9. E, APR.12,1982, 16:30 KST, DEPTH 75 , COLOR 6, TRANS. 3.0,

WAVE 2, SWELL 1, WIND NE 2, BARO 1020.3, AIR TEMP. DRY 12.0, WET , CLOUD. TYPE AS, AMT 10, WEATHER C ,

07.7032.950*****

107.0032.940*****

2272270.0000

2192190.0223

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

20	6.90	32.950	*****							20	6.90	32.950	*****	25.84	216	216	0.0440
30	6.79	32.990	*****							30	6.79	32.990	*****	25.88	212	212	0.0655
50	7.38	33.170	*****							50	7.38	33.170	*****	25.94	206	207	0.1075
70	7.50	33.260	*****														

KOREA ; HAN RA SAN , STATION 311-06 , 34-43.0. N, 125-19.4. E, APR.12.1982, 18:20 KST, DEPTH 92 , COLOR 6, TRANS. 310.

WAVE 1, SWELL 1, WIND NE 1, BARO 1019.5, AIR TEMP. DRY 10.8, WET , CLOUD. TYPE AS, AMT 10, WEATHER C ,

0	7.98	33.030	*****							0	7.98	33.030	*****	25.75	225	225	0.0000
10	6.90	33.030	*****							10	6.90	33.030	*****	25.90	211	210	0.0217
20	7.02	33.060	*****							20	7.02	33.060	*****	25.91	210	210	0.0428
30	7.02	33.100	*****							30	7.02	33.100	*****	25.94	207	207	0.0637
50	7.12	33.130	*****							50	7.12	33.130	*****	25.95	206	206	0.1051
75	7.52	33.350	*****							75	7.52	33.350	*****	26.06	195	196	0.1555
85	7.40	33.350	*****														

KOREA ; HAN RA SAN , STATION 311-07 , 34-43.0. N, 125-00.0. E, APR.12.1982, 21:00 KST, DEPTH 88 , COLOR , TRANS. ,

WAVE 1, SWELL 1, WIND NE 1, BARO 1020.5, AIR TEMP. DRY 10.0, WET , CLOUD. TYPE AS, AMT 02, WEATHER B ,

0	8.40	33.220	*****							0	8.40	33.220	*****	25.83	217	216	0.0000
10	8.10	33.240	*****							10	8.10	33.240	*****	25.89	211	211	0.0214
20	7.45	33.260	*****							20	7.45	33.260	*****	26.00	201	201	0.0420
30	7.52	33.310	*****							30	7.52	33.310	*****	26.03	198	198	0.0619
50	7.58	33.420	*****							50	7.58	33.420	*****	26.11	190	191	0.1009
75	7.75	33.500	*****							75	7.75	33.500	*****	26.15	187	188	0.1483
85	8.00	33.590	*****														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY

KOREA ,HAN RA SAN , STATION 311-08 , 34-43.0. N, 124-47.9. E, APR.12.1982, 22:55 KST, DEPTH 95 , COLOR , TRANS. ,
 WAVE 1, SWELL 1, WIND SE 1, BARO 1020. , AIR TEMP. DRY 10.2, WET , CLOUD. TYPE , AMT , WEATHER B ,
 0 9.57 33.400 ***** 0 9.57 33.400 ***** 25.79 221 220 0.0000
 10 7.85 33.400 ***** 10 7.85 33.400 ***** 26.06 196 195 0.0208
 20 7.62 33.400 ***** 20 7.62 33.400 ***** 26.09 192 192 0.0402
 30 7.71 33.400 ***** 30 7.71 33.400 ***** 26.08 194 194 0.0526
 50 7.90 33.590 ***** 50 7.90 33.590 ***** 26.20 182 183 0.0973
 75 8.30 33.780 ***** 75 8.30 33.780 ***** 26.29 174 175 0.1421
 90 8.40 33.820 *****

KOREA ,HAN RA SAN , STATION 311-09 , 34-43.0. N, 124-35.8. E, APR.13.1982, 00:45 KST, DEPTH 86 , COLOR , TRANS. ,
 WAVE 2, SWELL 1, WIND SE 2, BARO 1020. , AIR TEMP. DRY 9.7, WET , CLOUD. TYPE , AMT , WEATHER F ,
 0 9.32 33.350 ***** 0 9.32 33.350 ***** 25.79 221 220 0.0000
 10 8.27 33.330 ***** 10 8.27 33.330 ***** 25.94 207 206 0.0213
 20 7.70 33.370 ***** 20 7.70 33.370 ***** 26.05 196 196 0.0415
 30 7.70 33.480 ***** 30 7.70 33.480 ***** 26.14 188 188 0.0607
 50 8.12 33.660 ***** 50 8.12 33.660 ***** 26.22 180 180 0.0976
 75 8.32 33.800 ***** 75 8.32 33.800 ***** 26.30 172 173 0.1420
 81 8.50 33.800 *****

KOREA ,HAN RA SAN , STATION 311-10 , 34-43.0. N, 124-23.4. E, APR.13.1982, 02:40 KST, DEPTH 85 , COLOR , TRANS. ,
 WAVE 1, SWELL 1, WIND SE 1, BARO 1020. , AIR TEMP. DRY 9.1, WET , CLOUD. TYPE , AMT , WEATHER F ,
 0 8.72 33.390 ***** 0 8.72 33.390 ***** 25.92 209 208 0.0000
 10 7.90 33.480 ***** 10 7.90 33.480 ***** 26.11 190 190 0.0199
 20 7.61 33.510 ***** 20 7.61 33.510 ***** 26.18 184 184 0.0387

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

30	7.88	33.620	*****							30	7.88	33.620	*****	26.22	180	180	0.0569
50	8.08	33.710	*****							50	8.08	33.710	*****	26.27	176	176	0.0926
80	8.18	33.840	*****							75	8.16	33.818	*****	26.34	169	170	0.1360

6月(June)

KOREA ,HAN RA SAN , STATION 311-04 , 34-43.0. N, 125-43.9. E, JUN. 8.1982, 13:40 KST, DEPTH 33 , COLOR 6, TRANS. 5.0,

WAVE 1, SWELL 1, WIND SW 1, BARO 1014. , AIR TEMP. DRY 18.8, WET , CLOUD. TYPE , AMT 00, WEATHER F ,

0	16.17	33.510	*****							0	16.17	33.510	*****	24.58	336	336	0.0000
10	14.10	33.750	*****							10	14.10	33.750	*****	25.22	275	275	0.0306
20	14.05	33.750	*****							20	14.05	33.750	*****	25.23	274	275	0.0581
30	13.91	33.750	*****							30	13.91	33.750	*****	25.26	272	272	0.0855

KOREA ,HAN RA SAN , STATION 311-05 , 34-43.0. N, 125-31.9. E, JUN. 8.1982, 15:20 KST, DEPTH 75 , COLOR 6, TRANS. 7.0,

WAVE 1, SWELL 1, WIND S 1, BARO 1014. , AIR TEMP. DRY 19.2, WET , CLOUD. TYPE AS, AMT 03, WEATHER F ,

0	14.10	33.240	*****							0	14.10	33.240	*****	24.82	313	313	0.0000
10	12.98	33.240	*****							10	12.98	33.240	*****	25.05	291	291	0.0302
20	11.81	33.240	*****							20	11.81	33.240	*****	25.27	270	270	0.0583
30	11.78	33.300	*****							30	11.78	33.300	*****	25.33	265	265	0.0851
50	11.80	33.350	*****							50	11.80	33.350	*****	25.36	262	262	0.1380
70	12.14	33.350	*****														

KOREA ,HAN RA SAN , STATION 311-06 , 34-43.0. N, 125-19.4. E, JUN. 8.1982, 17:05 KST, DEPTH 90 , COLOR 4, TRANS. 8.0,

WAVE 1, SWELL 1, WIND SE 1, BARO 1014. , AIR TEMP. DRY 19.5, WET , CLOUD. TYPE AS, AMT 05, WEATHER F ,

0	16.65	33.210	*****							0	16.65	33.210	*****	24.24	368	368	0.0000
10	14.77	33.750	*****							10	14.37	33.350	*****	24.85	310	310	0.0339
20	13.16	33.390	*****							20	13.16	33.390	*****	25.13	284	284	0.0637

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

30	12.53	33.440	*****							30	12.53	33.440	*****	25.29	268	269	0.0913
50	11.80	33.440	*****							50	11.80	33.440	*****	25.43	255	256	0.1439
75	10.95	33.470	*****							75	10.95	33.470	*****	25.61	238	239	0.2059
85	10.89	33.490	*****														

KOREA : HAN RA SAN , STATION 311-07 , 34-43.0. N, 125-00.0. E, JUN. 8.1992, 19:40 KST, DEPTH 91 , COLOR , TRANS. ,

WAVE	1, SWELL	1, WIND SE	1, BARO 1014. , AIR TEMP. DRY	18.3, WET													
0	12.00	33.370	*****							0	12.00	33.370	*****	25.34	264	263	0.0000
10	11.56	33.370	*****							10	11.56	33.370	*****	25.42	256	256	0.0260
20	11.17	33.370	*****							20	11.17	33.370	*****	25.49	249	249	0.0513
30	10.88	33.370	*****							30	10.88	33.370	*****	25.54	244	245	0.0760
50	10.42	33.350	*****							50	10.42	33.350	*****	25.61	238	239	0.1244
75	8.91	33.380	*****							75	8.91	33.380	*****	25.88	212	213	0.1811
86	8.70	33.460	*****														

KOREA : HON RA SAN , STATION 311-09 , 34-47.0. N, 124-47.9. E, JUN. 8.1992, 21:55 PST, DEPTH 92 , COLOR , TRANS. ,

WAVE	1, SWELL	1, WIND SE	1, BARO 1013. , AIR TEMP. DRY	18.5, WET													
0	17.56	32.990	*****							0	17.56	32.990	*****	23.86	405	405	0.0000
10	13.36	33.370	*****							10	13.36	33.370	*****	25.07	289	289	0.0347
20	11.91	33.370	*****							20	11.91	33.370	*****	25.36	262	262	0.0623
30	11.42	33.390	*****							30	11.42	33.390	*****	25.46	252	252	0.0881
50	11.29	33.490	*****							50	11.29	33.490	*****	25.56	242	243	0.1377
75	9.80	33.600	*****							75	9.80	33.600	*****	25.91	210	211	0.1946
88	9.75	33.680	*****														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA.T	D.T	SVA	D-DY

FOREA ,HAN RA SAN , STATION 311-09 , 34-43.0. N, 124-35.8. E, JUN. 8.1982, 23:25 KST, DEPTH 88 , COLOR , TRANS.
 WAVE 1, SWELL 1, WIND SE 1, BARO 1016. , AIR TEMP. DRY 17.7, WET , CLOUD. TYPE , AMT 00, WEATHER B ,

0	18.54	33.010	*****						0	18.54	33.010	*****	23.63	426	426	0.0000
10	14.60	33.150	*****						10	14.60	33.150	*****	24.65	329	329	0.0378
20	12.65	33.300	*****						20	12.65	33.300	*****	25.16	281	281	0.0683
30	11.07	33.460	*****						30	11.07	33.460	*****	25.58	241	241	0.0945
50	9.63	33.530	*****						50	9.63	33.530	*****	25.98	212	212	0.1400
75	7.85	33.680	*****						75	7.85	33.680	*****	26.28	175	175	0.1886
85	7.42	33.690	*****													

KOREA ,HAN RA SAN , STATION 311-10 , 34-43.0. N, 124-23.4. E, JUN. 9.1982, 01:20 KST, DEPTH 83 , COLOR , TRANS.
 WAVE 1, SWELL 1, WIND SE 1, BARO 1013. , AIR TEMP. DRY 19.3, WET , CLOUD. TYPE , AMT 00, WEATHER B ,

0	19.60	32.970	*****						0	19.60	32.970	*****	23.34	455	454	0.0000
10	18.11	32.990	*****						10	18.11	32.990	*****	23.72	418	418	0.0436
20	17.18	33.010	*****						20	17.18	33.010	*****	23.96	395	395	0.0843
30	10.54	33.030	*****						30	10.54	33.030	*****	25.34	264	264	0.1173
50	7.57	33.130	*****						50	7.57	33.130	*****	25.89	212	212	0.1650
78	7.46	33.130	*****						75	7.47	33.130	*****	25.90	211	211	0.2181

8 月(August)

KOREA ,HAN RA SAN , STATION 311-04 , 34-43.0. N, 125-43.9. E, AUG.11.1982, 13:20 KST, DEPTH 32 , COLOR 6, TRANS. 6.0,
 WAVE 1, SWELL 2, WIND SE 3, BARO 1012. , AIR TEMP. DRY 26.7, WET , CLOUD. TYPE , AMT 00, WEATHER B ,

0	23.50	32.180	*****						0	23.50	32.180	*****	21.67	614	613	0.0000
10	20.53	32.270	*****						10	20.53	32.270	*****	22.56	529	529	0.0571

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

20 19.61 32.360 ***** 20 19.61 32.360 ***** 22.87 499 500 0.1086
 29 18.94 32.410 *****

KOREA ,HAN RA SAN , STATION 311-05 , 34-43.0. N, 125-31.9. E, AUG.11.1982, 15:10 KST, DEPTH 75 , COLOR 6, TRANS. 6.5,
 WAVE 1, SWELL 2, WIND SE 3, BARO 1012. , AIR TEMP. DRY 26.0, WET , CLOUD. TYPE CI, AMT 02, WEATHER B ,
 0 22.79 32.160 ***** 0 22.79 32.160 ***** 21.86 596 595 0.0000
 10 19.55 32.290 ***** 10 19.55 32.290 ***** 22.83 503 503 0.0549
 20 18.58 32.340 ***** 20 18.58 32.340 ***** 23.11 476 476 0.1039
 30 18.19 32.390 ***** 30 18.19 32.390 ***** 23.25 463 464 0.1510
 50 17.91 32.500 ***** 50 17.91 32.500 ***** 23.40 449 450 0.2424
 70 16.61 32.700 *****

KOREA ,HAN RA SAN , STATION 311-06 , 34-43.0. N, 125-19.4. E, AUG.16.1982, 11:00 KST, DEPTH 90 , COLOR 6, TRANS. 8.0,
 WAVE 1, SWELL 2, WIND SE 2, BARO 1012.5, AIR TEMP. DRY 26.2, WET , CLOUD. TYPE AS, AMT 08, WEATHER C ,
 0 24.44 32.230 ***** 0 24.44 32.230 ***** 21.44 636 636 0.0000
 10 24.42 32.340 ***** 10 24.42 32.340 ***** 21.53 628 628 0.0632
 20 23.16 32.340 ***** 20 23.16 32.340 ***** 21.89 593 593 0.1243
 30 21.31 32.390 ***** 30 21.31 32.390 ***** 22.44 540 540 0.1810
 50 18.71 32.630 ***** 50 18.71 32.630 ***** 23.30 458 459 0.2811
 75 15.03 32.920 ***** 75 15.03 32.920 ***** 24.38 355 357 0.3831
 85 14.11 33.030 *****

KOREA ,HAN RA SAN , STATION 311-07 , 34-43.0. N, 125-00.0. E, AUG.16.1982, 13:35 KST, DEPTH 90 , COLOR 5, TRANS. 10.0,
 WAVE 1, SWELL 2, WIND SE 2, BARO 1013. , AIR TEMP. DRY 26.3, WET , CLOUD. TYPE AS, AMT 10, WEATHER C ,
 0 24.52 32.340 ***** 0 24.52 32.340 ***** 21.38 642 642 0.0000
 10 24.29 32.360 ***** 10 24.29 32.360 ***** 21.58 623 623 0.0632

OBSERVED										INTERPOLATED				CALCULATED		
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	D-DY

20	24.01	32.360	*****							20	24.01	32.360	*****	21.66	615	0.1252
30	19.72	32.390	*****							30	19.72	32.390	*****	22.86	500	0.1810
50	16.58	32.570	*****							50	16.58	32.570	*****	23.77	414	0.2726
75	12.89	33.060	*****							75	12.89	33.060	*****	24.93	303	0.3626
85	9.74	33.130	*****													

KOREA , HAN RA SAN , STATION 311-08 , 34-43.0. N, 124-47.9. E, AUG.16.1982, 15:25 KST, DEPTH 91 , COLOR 4, TRANS. 11.0.

WAVE 1, SWELL 2, WIND SE 2, BARO 1013.5, AIR TEMP. DRY 25.5, WET . CLOUD. TYPE AS. ANT 10, WEATHER C ,

0	24.63	32.160	*****							0	24.63	32.160	*****	21.33	647	0.0000
10	24.10	32.320	*****							10	24.10	32.320	*****	21.61	620	0.0633
20	23.67	32.390	*****							20	23.67	32.390	*****	21.78	603	0.1246
30	19.42	32.630	*****							30	19.42	32.630	*****	23.12	475	0.1786
50	12.15	32.770	*****							50	12.15	32.770	*****	24.85	311	0.2574
75	9.55	33.130	*****							75	9.55	33.130	*****	25.58	240	0.3266
86	9.19	33.240	*****													

KOREA , HAN RA SAN , STATION 311-09 , 34-43.0. N, 124-35.8. E, AUG.16.1982, 17:10 KST, DEPTH 80 , COLOR 4, TRANS. 12.0,

WAVE 2, SWELL 1, WIND SE 3, BARO 1013. , AIR TEMP. DRY 25.8, WET . CLOUD. TYPE AS. ANT 10, WEATHER C ,

0	25.11	31.980	*****							0	25.11	31.980	*****	21.05	674	0.0000
10	25.06	31.980	*****							10	25.06	31.980	*****	21.06	672	0.0673
20	23.85	32.030	*****							20	23.85	32.030	*****	21.46	634	0.1326
30	15.51	32.700	*****							30	15.51	32.700	*****	24.11	381	0.1835
50	11.97	32.990	*****							50	11.97	32.990	*****	25.05	291	0.2510
75	10.05	33.150	*****							75	10.05	33.150	*****	25.52	247	0.3184
78	9.93	33.220	*****													

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY

KOREA ,HAN RA SAN , STATION 311-10 , 34-43.0. N, 124-23.4. E, AUG.16.1982, 19:25 KST, DEPTH 82 , COLOR , TRANS. ,
 WAVE 2, SWELL 1, WIND SE 3, BARO 1012.5, AIR TEMP. DRY 25.5, WET , CLOUD. TYPE AS, AMT 10, WEATHER C ,
 0 25.80 31.760 ***** 0 25.80 31.760 ***** 20.67 710 709 0.0000
 10 24.81 31.780 ***** 10 24.81 31.780 ***** 20.99 679 679 0.0694
 20 24.40 31.850 ***** 20 24.40 31.850 ***** 21.16 663 663 0.1366
 30 10.85 32.970 ***** 30 10.85 32.970 ***** 25.24 273 274 0.1835
 50 8.74 33.170 ***** 50 8.74 33.170 ***** 25.74 225 226 0.2335
 77 8.85 33.350 ***** 75 8.84 33.336 ***** 25.86 214 215 0.2688

10月(October)

KOREA ,HAN RA SAN , STATION 311-04 , 34-43.0. N, 125-43.9. E, OCT.10.1982, 18:20 KST, DEPTH 34 , COLOR , TRANS. ,
 WAVE 1, SWELL , WIND SW 1, BARO 1026. , AIR TEMP. DRY 21.0, WET , CLOUD. TYPE , AMT 00, WEATHER B ,
 0 20.51 32.540 5.43 0 20.51 32.540 5.43 22.77 509 508 0.0000
 10 19.42 32.680 5.31 10 19.42 32.680 5.31 23.16 471 471 0.0490
 20 18.36 32.720 5.29 20 18.36 32.720 5.29 23.46 443 443 0.0948
 30 17.98 32.780 5.08 30 17.98 32.780 5.08 23.60 430 430 0.1385

KOREA ,HAN RA SAN , STATION 311-05 , 34-43.0. N, 125-31.9. E, OCT.10.1982, 20:00 KST, DEPTH 75 , COLOR , TRANS. ,
 WAVE 1, SWELL , WIND SW 1, BARO 1026. , AIR TEMP. DRY 20.5, WET , CLOUD. TYPE , AMT 00, WEATHER B ,
 0 19.75 32.560 5.57 0 19.75 32.560 5.57 22.99 488 488 0.0000
 10 18.19 32.570 5.59 10 18.19 32.570 5.59 23.38 450 450 0.0469
 20 17.73 32.570 5.21 20 17.73 32.570 5.21 23.50 439 440 0.0914
 30 17.46 32.630 5.03 30 17.46 32.630 5.03 23.61 429 429 0.1349
 50 17.03 32.630 5.06 50 17.03 32.630 5.06 23.71 419 420 0.2200
 70 16.82 32.630 5.09

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA , HAN RA SAN , STATION 311-06 , 34-43.0. N, 125-19.4. E, OCT.12.1982, 05:20 KST, DEPTH 93 , COLOR , TRANS.
 WAVE 1, SWELL , WIND N 1, BARO 1025. , AIR TEMP. DRY 20.8, WET , CLOUD. TYPE , AMT 00, WEATHER B ,

0	20.40	32.230	5.50							0	20.40	32.230	5.50	22.57	528	528	0.0000
10	20.10	32.300	5.56							10	20.10	32.300	5.56	22.70	516	516	0.0522
20	17.99	32.450	5.31							20	17.99	32.450	5.31	23.34	454	454	0.1007
30	16.94	32.610	5.22							30	16.94	32.610	5.22	23.71	419	419	0.1445
50	14.44	32.830	5.21							50	14.44	32.830	5.21	24.44	350	351	0.2215
75	12.67	32.920	4.98							75	12.67	32.920	4.98	24.86	309	310	0.3043
90	12.22	32.950	4.83														

KOREA , HAN RA SAN , STATION 311-07 , 34-43.0. N, 125-00.0. E, OCT.12.1982, 07:55 KST, DEPTH 90 , COLOR 4, TRANS. 15.0,
 WAVE 1, SWELL , WIND NE 1, BARO 1026. , AIR TEMP. DRY 20.1, WET , CLOUD. TYPE , AMT 00, WEATHER B ,

0	21.70	32.210	5.73							0	21.70	32.210	5.73	22.20	563	563	0.0000
10	21.62	32.550	5.61							10	21.62	32.550	5.61	22.48	536	536	0.0550
20	19.31	32.670	5.22							20	19.31	32.670	5.22	23.18	469	470	0.1053
30	17.02	32.700	5.21							30	17.02	32.700	5.21	23.76	414	414	0.1496
50	12.71	33.100	5.13							50	12.71	33.100	5.13	24.99	296	297	0.2208
75	11.32	33.100	5.07							75	11.32	33.100	5.07	25.26	272	273	0.2922
85	10.58	33.100	5.08														

KOREA , HAN RA SAN , STATION 311-08 , 34-43.0. N, 124-47.9. E, OCT.12.1982, 09:45 KST, DEPTH 93 , COLOR 2, TRANS. 23.0,
 WAVE 1, SWELL , WIND NNE 1, BARO 1026. , AIR TEMP. DRY 20.0, WET , CLOUD. TYPE , AMT 00, WEATHER B ,

0	22.15	32.470	5.61							0	22.15	32.470	5.61	22.27	556	556	0.0000
10	21.79	32.550	5.69							10	21.79	32.550	5.69	22.43	541	541	0.0548
20	21.25	32.620	5.59							20	21.25	32.620	5.59	22.64	522	522	0.1080
30	18.07	32.650	5.51							30	18.03	32.650	5.51	23.48	440	441	0.1562

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY
50	11.58	33.100	5.31							50	11.58	33.100	5.31	25.21	276	277	0.2281
75	10.67	33.220	5.04							75	10.67	33.220	5.04	25.46	252	253	0.2945
88	10.45	33.260	5.09														
KOREA , HAN RA SAN , STATION 311-09 , 34-43.0. N, 124-25.8. E, OCT.12.1982, 11:35 KST, DEPTH 83 , COLOR 2, TRANS. 21.0,																	
WAVE 1, SWELL 1, WIND NE 1, BARO 1025. , AIR TEMP. DRY 21.5, WET , CLOUD. TYPE CI, AMT 01, WEATHER B ,																	
0	22.18	31.550	5.75							0	22.18	31.550	5.75	21.57	623	623	0.0000
10	21.73	31.640	5.83							10	21.73	31.640	5.83	21.76	605	605	0.0614
20	21.38	31.670	5.68							20	21.38	31.670	5.68	21.88	594	594	0.1214
30	20.47	31.910	5.53							30	20.47	31.910	5.53	22.30	553	554	0.1789
50	10.58	32.950	5.21							50	10.58	32.950	5.21	25.27	270	271	0.2614
75	8.61	32.970	5.19							75	8.61	32.970	5.19	25.61	238	239	0.3253
78	8.67	32.950	5.17														
KOREA , HAN RA SAN , STATION 311-10 , 34-43.0. N, 124-23.4. E, OCT.12.1982, 13:30 KST, DEPTH 84 , COLOR 5, TRANS. 16.0,																	
WAVE 2, SWELL 1, WIND NE 2, BARO 1024.5, AIR TEMP. DRY 22.8, WET , CLOUD. TYPE CI, AMT 02, WEATHER B ,																	
0	21.68	31.550	5.71							0	21.68	31.550	5.71	21.71	610	610	0.0000
10	21.43	31.640	5.65							10	21.43	31.640	5.69	21.84	597	597	0.0604
20	20.08	32.090	5.44							20	20.08	32.090	5.44	22.54	530	531	0.1168
30	18.49	32.410	5.21							30	18.49	32.410	5.21	23.19	469	469	0.1667
50	10.77	33.100	4.95							50	10.77	33.100	4.95	25.44	254	255	0.2394
80	9.39	33.100	4.81							75	9.53	33.100	4.83	25.56	243	244	0.3018

12月(December)

KOREA , HAN RA SAN , STATION 311-04 , 34-43.0. N, 125-43.9. E, DEC.21.1982, 21:25 KST, DEPTH 34 , COLOR , TRANS. ,
WAVE 3, SWELL 2, WIND SW 4, BARO 1023. , AIR TEMP. DRY 9.2, WET , CLOUD. TYPE AS, AMT 06, WEATHER BC,
0 10.09 32.570 5.66 25.06 290 250 0.0000

OBSERVED										INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY	

10 10.11 32.570 5.72
 20 10.22 32.570 5.84
 30 10.04 32.560 5.83

FOREA .HAN RA SAN . STATION 311-05 , 34-43.0. N, 125-31.9. E, DEC.21.1982, 23:05 LST, DEPTH 75 , COLOR , TRANS.

WAVE 3, SWELL 2, WIND SW 4, BARO 1022. , AIR TEMP. DRY 9.1, WET , CLOUD. TYPE AS, AMT 06, WEATHER BC,

0 11.02 32.540 5.53
 10 11.10 32.540 5.62
 20 10.94 32.590 5.61
 30 10.93 32.610 5.70
 50 10.90 32.660 5.70
 70 10.61 32.680 5.52

KOREA .HAN RA SAN . STATION 311-06 , 34-43.0. N, 125-19.4. E, DEC.24.1982, 06:00 LST, DEPTH 90 , COLOR , TRANS.

WAVE 3, SWELL 2, WIND SW 4, BARO 1023. , AIR TEMP. DRY 10.2, WET , CLOUD. TYPE AC, AMT 08, WEATHER C ,

0 11.50 32.590 5.52
 10 11.26 32.610 5.40
 20 11.23 32.610 5.64
 30 11.27 32.630 5.51
 50 11.23 32.650 5.40
 75 11.22 32.680 5.59
 85 11.20 32.720 5.54

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY

KOREA .HAN RA SAN . STATION 311-07 . 34-43.0. N, 125-00.0. E. DEC.28.1982, 07:55 KST. DEPTH 90 , COLOR , TRANS. ,
 WAVE 2, SWELL 1, WIND SW 3, BARO 1024. , AIR TEMP. DRY 7.3, WET , CLOUD. TYPE AS, AMT 05, WEATHER BC,
 0 10.80 32.660 5.59 0 10.80 32.660 5.59 25.01 295 295 0.0000
 10 11.06 32.680 5.61 10 11.06 32.680 5.61 24.98 298 298 0.0297
 20 11.16 32.700 5.57 20 11.16 32.700 5.57 24.97 298 299 0.0595
 30 11.18 32.700 5.43 30 11.18 32.700 5.43 24.97 299 299 0.0895
 50 11.14 32.720 5.50 50 11.14 32.720 5.50 24.99 297 297 0.1492
 75 11.11 32.720 5.42 75 11.11 32.720 5.42 25.00 296 297 0.2237
 85 11.10 32.740 5.31

KOREA .HAN RA SAN . STATION 311-08 , 34-43.0. N, 124-47.9. E. DEC.28.1982, 09:25 KST. DEPTH 93 , COLOR 5, TRANS. 6.0,
 WAVE 2, SWELL 1, WIND SW 3, BARO 1024. , AIR TEMP. DRY 8.0, WET , CLOUD. TYPE AS, AMT 06, WEATHER BC,
 0 11.00 32.720 5.54 0 11.00 32.720 5.54 25.02 294 294 0.0000
 10 10.91 32.720 5.60 10 10.91 32.720 5.60 25.03 293 293 0.0293
 20 11.10 32.720 5.60 20 11.10 32.720 5.60 25.00 296 296 0.0588
 30 11.24 32.740 5.59 30 11.24 32.740 5.59 24.99 297 297 0.0885
 50 11.17 32.740 5.52 50 11.17 32.740 5.52 25.00 296 296 0.1480
 75 11.16 32.770 5.51 75 11.16 32.770 5.51 25.03 293 295 0.2220
 88 11.14 32.810 5.49

KOREA .HAN RA SAN . STATION 311-09 , 34-43.0. N, 124-35.8. E. DEC.28.1982, 11:10 KST. DEPTH 88 , COLOR 4, TRANS. 6.0,
 WAVE 2, SWELL 1, WIND SW 3, BARO 1024. , AIR TEMP. DRY 8.2, WET , CLOUD. TYPE AS, AMT 07, WEATHER BC,
 0 11.00 32.750 5.79 0 11.00 32.750 5.79 25.04 292 292 0.0000
 10 11.45 32.770 5.82 10 11.45 32.770 5.82 24.98 298 298 0.0295
 20 11.36 32.790 5.61 20 11.36 32.790 5.61 25.01 295 295 0.0592
 30 11.53 32.810 5.59 30 11.53 32.810 5.59 24.99 297 297 0.0889

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
50	11.51	32.830	5.50							50	11.51	32.830	5.50	25.01	295	296	0.1482
75	11.44	32.830	5.50							75	11.44	32.830	5.50	25.02	294	295	0.2222
83	11.42	32.860	5.30														
POSEA ,HAN RA SAN , STATION 311-10 , 34-43.0. N, 124-23.4. E, DEC.28.1982, 13:00 KST, DEPTH 84 , COLOR 5, TRANS. 4.0, WAVE 3, SWELL 2, WIND SW 4, BARO 1023. , AIR TEMP. DRY 9.0, WET , CLOUD. TYPE AS, AMF 08. WEATHER C .																	
0	10.95	32.790	5.52							0	10.95	32.790	5.52	25.08	288	288	0.0000
10	11.31	32.790	5.50							10	11.31	32.790	5.50	25.02	294	294	0.0791
20	11.50	32.810	5.50							20	11.50	32.810	5.50	25.00	296	296	0.0587
30	11.48	32.850	5.50							30	11.48	32.850	5.50	25.03	293	293	0.0882
50	11.36	32.830	5.42							50	11.36	32.830	5.42	25.04	293	293	0.1470
80	11.36	32.830	5.39							75	11.36	32.830	5.39	25.04	292	294	0.2205

312線 海洋觀測 成績

Oceanographic Data. Line 312

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

2月(February)

KOREA , HAN RA SAN , STATION 312-02 , 33-58.5. N, 126-06.0. E, FEB.16.1982, 14:55 KST, DEPTH 85 , COLOR 6, TRANS. 3.0,

WAVE 2, SWELL 1, WIND NE 2, BARO 1026. , AIR TEMP. DRY 7.0, WET , CLOUD. TYPE AS, AMT 02, WEATHER B ,

0	5.24	33.030	*****						0	5.24	33.030	*****	26.11	191	191	0.0000
10	5.25	33.040	*****						10	5.25	33.040	*****	26.11	190	190	0.0190
20	5.43	33.120	*****						20	5.43	33.120	*****	26.15	186	186	0.0379
30	6.35	33.280	*****						30	6.35	33.280	*****	26.17	185	185	0.0565
50	6.49	33.330	*****						50	6.49	33.330	*****	26.19	187	183	0.0934
82	6.35	33.350	*****						75	6.38	33.345	*****	26.22	180	181	0.1391

KOREA , HAN RA SAN , STATION 312-03 , 33-59.8. N, 126-54.0. E, FEB.16.1982, 17:05 KST, DEPTH 76 , COLOR 6, TRANS. 25.0,

WAVE 2, SWELL 1, WIND NE 2, BARO 1029.5, AIR TEMP. DRY 5.3, WET , CLOUD. TYPE AS, AMT 07, WEATHER BC,

0	5.22	33.010	*****						0	5.22	33.010	*****	26.09	192	192	0.0000
10	5.30	32.970	*****						10	5.30	32.970	*****	26.05	196	196	0.0194
20	5.35	32.990	*****						20	5.35	32.970	*****	26.06	195	195	0.0790
30	5.30	33.040	*****						30	5.30	33.040	*****	26.11	191	191	0.0583
50	6.70	33.290	*****						50	6.70	33.280	*****	26.12	189	190	0.0965
75	7.00	33.390	*****													

KOREA , HAN RA SAN , STATION 312-04 , 34-01.3. N, 125-42.0. E, FEB.16.1982, 11:15 KST, DEPTH 02 , COLOR 6, TRANS. 7.0,

WAVE 2, SWELL 1, WIND NE 2, BARO 1027.5, AIR TEMP. DRY 4.8, WET , CLOUD. TYPE AS, AMT 07, WEATHER FC,

0	6.50	33.200	*****						0	6.50	33.200	*****	26.09	193	192	0.0000
10	6.40	33.220	*****						10	6.40	33.220	*****	26.11	190	190	0.0191

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KORFA , HON RA SAN , STATION 312-05 , 34-02.6. N, 125-30.0. E, FEB.16.1982, 09:20 KST, DEPTH 74 , COLOR 5, TRANS. 4.0,																	
WAVE 2, SWELL 1, WIND NE 2, BARO 1027.2, AIR TEMP. DRY 4.4, WET , CLOUD. TYPE 05, WEATHER BC,																	
20	6.50	33.240	*****							20	6.50	33.240	*****	26.12	190	190	0.0382
30	6.70	33.260	*****							30	6.70	33.260	*****	26.11	191	191	0.0572
50	7.05	33.400	*****							50	7.05	33.400	*****	26.17	195	185	0.0949
70	7.03	33.390	*****							75	7.03	33.391	*****	26.16	195	186	0.1415
KORFA , HON RA SAN , STATION 312-06 , 34-04.1. N, 125-18.0. E, FEB.16.1982, 07:50 KST, DEPTH 102 , COLOR 5, TRANS. 4.0,																	
WAVE 2, SWELL 1, WIND NE 2, BARO 1029. , AIR TEMP. DRY 3.5, WET , CLOUD. TYPE , AMT 08, WEATHER C ,																	
0	6.70	33.330	*****							0	6.70	33.330	*****	26.16	196	185	0.0000
10	6.80	33.310	*****							10	6.82	33.310	*****	26.13	189	188	0.0187
19	6.65	33.310	*****							20	6.74	33.325	*****	26.15	187	187	0.0375
29	7.62	33.460	*****							30	7.67	33.474	*****	26.14	188	188	0.0562
49	8.63	33.730	*****							50	8.70	33.749	*****	26.20	182	182	0.0934
72	9.52	33.960	*****							75	9.53	33.964	*****	26.24	178	180	0.1387
98	9.63	34.000	*****														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA , HAN RA SAN , STATION 312-07 , 34-05.5. N, 125-00.0. E, FEB.16.1982, 01:55 KST, DEPTH 93 , COLOR , TRANS.

WAVE 3, SWELL 2, WIND N 3, BARO 1029. , AIR TEMP, DRY 2.5, WET , CLOUD, TYPE , AMT 10, WEATHER C ,																	
0	8.30	33.770	*****							0	8.30	33.770	*****	26.28	174	174	0.0000
10	8.90	33.890	*****							10	8.90	33.890	*****	26.28	174	174	0.0174
20	9.03	33.910	*****							20	9.03	33.910	*****	26.29	175	175	0.0349
30	9.15	33.980	*****							30	9.15	33.980	*****	26.31	171	172	0.0523
50	9.25	34.000	*****							50	9.25	34.000	*****	26.31	171	172	0.0867
75	9.66	34.050	*****							75	9.66	34.050	*****	26.28	174	175	0.1303
90	9.70	34.130	*****														

KOREA , HAN RA SAN , STATION 312-08 , 34-05.5. N, 124-48.0. E, FEB.16.1982, 03:05 KST, DEPTH 93 , COLOR , TRANS.

WAVE 3, SWELL 2, WIND N 3, BARO 1029. , AIR TEMP, DRY 3.0, WET , CLOUD, TYPE , AMT 09, WEATHER C ,																	
0	8.06	33.390	*****							0	8.06	33.390	*****	26.02	199	199	0.0000
10	7.95	33.470	*****							10	7.95	33.470	*****	26.10	192	192	0.0195
20	7.85	33.510	*****							20	7.85	33.510	*****	26.14	187	187	0.0385
30	7.85	33.550	*****							30	7.85	33.550	*****	26.17	184	185	0.0572
50	8.36	33.640	*****							50	8.36	33.640	*****	26.17	185	185	0.0943
75	9.50	33.950	*****							75	9.50	33.950	*****	26.23	179	180	0.1401
90	9.95	34.110	*****														

KOREA , HAN RA SAN , STATION 312-09 , 34-05.5. N, 124-36.0. E, FEB.16.1982, 01:15 KST, DEPTH 89 , COLOR , TRANS.

WAVE 3, SWELL 2, WIND N 3, BARO 1028.5, AIR TEMP, DRY 2.5, WET , CLOUD, TYPE , AMT 06, WEATHER PC ,																	
0	7.55	33.390	*****							0	7.55	33.390	*****	26.09	192	192	0.0000
10	7.40	33.400	*****							10	7.40	33.400	*****	26.12	189	189	0.0191
20	7.62	33.500	*****							20	7.62	33.500	*****	26.17	185	185	0.0778

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	DT	SWA	U DY
30	7.77	33.530	*****							30	7.77	33.530	*****	26.17	185	185	0.0564
50	8.68	33.770	*****							50	8.68	33.770	*****	26.22	180	180	0.0930
86	9.03	33.860	*****							75	8.92	33.832	*****	26.23	179	180	0.1382
FOREA , HAN RA SAN , STATION 312-10 , 34-05.5. N, 124-24.0. E, FEB.15.1982, 23:25 KST, DEPTH 84 , COLOR , TRANS.																	
WAVE 2, SWELL 1, WIND NW 2, BARO 1028. , AIR TEMP. DRY 3.6, WET , CLOUD. TYPE , AMT 00, WEATHER B ,																	
0	7.09	33.150	*****							0	7.09	33.150	*****	25.97	204	204	0.0000
10	7.00	33.240	*****							10	7.00	33.240	*****	26.05	196	196	0.0200
20	7.04	33.240	*****							20	7.04	33.240	*****	26.05	197	197	0.0397
30	6.90	33.260	*****							30	6.90	33.260	*****	26.08	193	193	0.0592
50	6.95	33.280	*****							50	6.95	33.280	*****	26.09	197	193	0.0779
81	7.05	33.370	*****							75	7.03	33.352	*****	26.13	188	189	0.1458

4月(April)

KOREA , HAN RA SAN , STATION 312-02 , 33-58.5. N, 126-06.0. E, APR.13.1982, 23:15 KST, DEPTH 85 , COLOR , TRANS.																	
WAVE 1, SWELL 1, WIND N 2, BARO 1017. , AIR TEMP. DRY 10.4, WET , CLOUD. TYPE NS, AMT 07, WEATHER BC,																	
0	8.30	33.590	*****							0	8.30	33.590	*****	26.14	188	187	0.0000
10	8.30	33.590	*****							10	8.30	33.590	*****	26.14	188	188	0.0187
20	8.19	33.600	*****							20	8.19	33.600	*****	26.16	185	185	0.0375
30	8.38	33.660	*****							30	8.38	33.660	*****	26.18	184	184	0.0560
50	10.58	33.730	*****							50	10.58	33.730	*****	25.88	213	213	0.0958
80	9.99	33.800	*****							75	10.08	33.788	*****	26.01	200	201	0.1478
FOREA , HAN RA SAN , STATION 312-03 , 33-59.8. N, 126-54.0. E, APR.13.1982, 21:25 KST, DEPTH 73 , COLOR , TRANS.																	
WAVE 1, SWELL 1, WIND N 2, BARO 1017. , AIR TEMP. DRY 10.7, WET , CLOUD. TYPE NS, AMT 07, WEATHER BC,																	
0	10.80	33.620	*****							0	10.80	33.620	*****	25.75	224	224	0.0900

OBSERVED										INTERPOLATED				CALCULATED		
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	D-DY
10	11.11	33.620	*****							10	11.11	33.620	*****	25.70	270	0.0227
20	11.60	33.620	*****							20	11.60	33.620	*****	25.61	238	0.0461
30	11.52	33.680	*****							30	11.52	33.680	*****	25.67	232	0.0697
50	11.48	33.750	*****							50	11.48	33.750	*****	25.73	226	0.1158
70	11.50	33.800	*****													
KOREA ,HAN RA SAN , STATION 312-04 , 34-01.3. N, 125-42.0. E, APR.17.1982, 09:50 PST, DEPTH 84 , COLOR , TRANS.																
WAVE 1, SWELL 1, WIND N 1, BARO 1017. , AIR TEMP. DRY 11.0, WET , CLOUD. TYPE NS, AMT 09, WEATHER C ,																
0	11.35	33.600	*****							0	11.35	33.600	*****	25.64	235	0.0900
10	10.70	33.620	*****							10	10.70	33.620	*****	25.77	223	0.0229
20	10.70	33.600	*****							20	10.70	33.640	*****	25.79	221	0.0451
30	10.60	33.660	*****							30	10.60	33.660	*****	25.82	218	0.0672
50	11.15	33.730	*****							50	11.15	33.730	*****	25.78	222	0.1114
80	10.92	33.870	*****							75	10.95	33.846	*****	25.90	210	0.1650
KOREA ,HAN RA SAN , STATION 312-05 , 34-02.6. N, 125-30.0. E. APR.17.1982, 17:45 PST, DEPTH 92 , COLOR 3, TRANS. 7.0,																
WAVE 1, SWELL 1, WIND N 1, BARO 1017.5, AIR TEMP. DRY 11.0, WET , CLOUD. TYPE NS, AMT 08, WEATHER C ,																
0	8.32	33.590	*****							0	8.32	33.590	*****	26.14	188	0.0000
10	8.01	33.600	*****							10	8.01	33.600	*****	26.19	183	0.0185
20	8.30	33.600	*****							20	8.30	33.600	*****	26.15	187	0.0371
30	8.38	33.640	*****							30	8.38	33.640	*****	26.17	185	0.0557
50	8.52	33.690	*****							50	8.52	33.690	*****	26.18	184	0.0928
75	10.12	33.770	*****							75	10.12	33.770	*****	25.99	202	0.1413
97	10.20	33.930	*****													

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA .HAN RA SAN . STATION 312-06 . 34-04.1. N, 125-18.0. E, APR.13.1982. 15:55 KST. DEPTH 100 , COLOR 3, TRANS. 8.0,
 WAVE 1, SWELL 1, WIND NE 1, BARO 1018. , AIR TEMP. DRY 11.8, WET , CLOUD. TYPE NS, AMT 01, WEATHER P ,
 0 9.50 33.590 ***** 0 9.50 33.590 ***** 25.95 206 205 0.0000
 10 8.80 33.590 ***** 10 8.80 33.590 ***** 26.06 195 195 0.0200
 20 8.90 33.600 ***** 20 8.90 33.600 ***** 26.05 196 196 0.0396
 30 9.00 33.640 ***** 30 9.00 33.640 ***** 26.07 194 195 0.0592
 50 9.20 33.680 ***** 50 9.20 33.680 ***** 26.07 194 195 0.0982
 75 9.25 33.840 ***** 75 9.25 33.840 ***** 26.19 183 184 0.1457
 95 9.70 37.930 *****

KOREA .HAN RA SAN , STATION 312-07 , 34-05.5. N, 125-00.0. E, APR.13.1982, 13:00 KST. DEPTH 75 , COLOR 3, TRANS. 10.0,
 WAVE 1, SWELL 1, WIND E 1, BARO 1017. , AIR TEMP. DRY 11.0, WET , CLOUD. TYPE NS, AMT 10, WEATHER C ,
 0 9.55 33.590 ***** 0 9.55 33.590 ***** 25.94 206 206 0.0000
 10 9.75 33.600 ***** 10 9.75 33.600 ***** 25.99 203 202 0.0204
 20 9.75 33.640 ***** 20 9.75 33.640 ***** 26.01 200 200 0.0406
 30 8.90 33.680 ***** 30 8.90 33.680 ***** 26.10 199 190 0.0601
 50 9.00 37.780 ***** 50 9.00 37.780 ***** 26.18 184 185 0.0977
 75 8.65 37.780 ***** 75 8.65 37.780 ***** 26.23 179 180 0.1433
 88 9.30 33.950 *****

KOREA .HAN RA SAN , STATION 312-08 , 34-05.5. N, 124-48.0. E, APR.17.1982. 11:25 KST. DEPTH 92 , COLOR 3, TRANS. 9.0,
 WAVE 1, SWELL 1, WIND E 1, BARO 1019. , AIR TEMP. DRY 11.0, WET , CLOUD. TYPE NS, AMT 10, WEATHER C ,
 0 9.50 33.620 ***** 0 9.50 33.620 ***** 25.97 207 203 0.0000
 10 8.50 33.660 ***** 10 8.60 33.660 ***** 26.15 187 187 0.0195
 20 8.60 33.680 ***** 20 8.60 33.680 ***** 26.16 185 185 0.0381
 30 8.80 33.690 ***** 30 8.80 33.690 ***** 26.14 188 188 0.0569

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY

50 8.82 33.730 *****
 75 9.00 33.780 *****
 87 8.95 33.890 *****

KOREA ,HON RO SAN , STATION 312-09 ; 34-05.5. N, 124-35.0. E, APR.13.1982. 09:45 KST, DEPTH 95 , COLOR 3, TRANS. 8.0,
 WAVE 1, SWELL 1, WIND E 1, BARO 1019. , AIR TEMP. DRY 12.0, WET , CLOUD. TYPE NS, AMT 09, WEATHER C ,
 0 9.60 33.550 *****
 10 8.72 33.570 *****
 20 8.50 33.640 *****
 30 8.40 33.800 *****
 50 8.60 33.790 *****
 80 7.00 33.860 *****

KOREA ,HON RO SAN , STATION 312-10 ; 34-05.5. N, 124-34.0. E, APR.13.1982, 07:55 KST, DEPTH 85 , COLOR 3, TRANS. 7.5,
 WAVE 1, SWELL 1, WIND E 1, BARO 1020. , AIR TEMP. DRY 10.7, WET , CLOUD. TYPE NS, AMT 07, WEATHER BC,
 0 9.05 33.550 *****
 10 8.40 33.570 *****
 20 8.19 33.620 *****
 30 8.38 33.710 *****
 50 8.60 33.820 *****
 80 8.78 33.870 *****

6 月(June)

KOREA ,HON RO SAN , STATION 312-02 ; 33-59.5. N, 126-06.0. E, JUN. 9.1982. 21:55 KST, DEPTH 85 , COLOR , TRANS. ,
 WAVE 1, SWELL 1, WIND SE 1, BARO 1016. , AIR TEMP. DRY 19.5, WET - CLOUD. TYPE AS, AMT 03, WEATHER BC,
 0 10.60 33.820 *****

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

10	15.01	34.130	*****							10	15.01	34.130	*****	25.31	266	266	0.0315
20	13.44	34.200	*****							20	13.44	34.200	*****	25.70	230	230	0.0563
30	11.83	34.200	*****							30	11.83	34.200	*****	26.01	200	200	0.0779
50	11.40	34.200	*****							50	11.40	34.200	*****	26.09	192	193	0.1172
80	11.36	34.200	*****							75	11.36	34.200	*****	26.10	191	193	0.1655

FOREA , HAN RA SAN , STATION 312-03 , 33-57.8. N, 126-54.0. E, JUN. 9.1982. 20:05 KST, DEPTH 75 , COLOR , TRANS.

WAVE 1, SWELL 1, WIND SE 1, BARO 1016.5, AIR TEMP. DRY 18.1, WET . CLOUD. TYPE AS, AMT 06, WEATHER PC.

0	20.43	34.040	*****							0	20.43	34.040	*****	23.93	398	397	0.0000
10	17.36	34.110	*****							10	17.36	34.110	*****	24.76	319	319	0.0358
20	14.45	34.110	*****							20	14.45	34.110	*****	25.42	256	256	0.0646
30	13.19	34.110	*****							30	13.19	34.110	*****	25.68	231	232	0.0891
50	11.80	34.120	*****							50	11.80	34.120	*****	25.96	205	206	0.1329
70	11.47	34.130	*****														

FOREA , HAN RA SAN , STATION 312-04 , 34-01.3. N, 125-42.0. E, JUN. 9.1982. 19:20 KST, DEPTH 84 , COLOR 3, TRANS. 9.0.

WAVE 1, SWELL 1, WIND E 1, BARO 1017. , AIR TEMP. DRY 19.3, WET . CLOUD. TYPE , AMT 00, WEATHER B ,

0	19.58	33.780	*****							0	19.58	33.780	*****	23.96	395	395	0.0000
10	15.59	33.860	*****							10	15.59	33.860	*****	24.98	298	298	0.0307
20	13.22	33.910	*****							20	13.22	33.910	*****	25.52	247	247	0.0619
30	12.33	34.090	*****							30	12.33	34.090	*****	25.83	217	217	0.0852
50	11.26	34.150	*****							50	11.26	34.150	*****	26.08	193	194	0.1264
80	10.20	34.150	*****							75	10.37	34.150	*****	26.24	178	179	0.1732

KOREA , HAN RA SAN , STATION 312-05 , 34-02.6. N, 125-30.0. E, JUN. 9.1982, 16:25 KST, DEPTH 92 , COLOR 3, TRANS. 9.0.

WAVE 1, SWELL 1, WIND E 1, BARO 1016. , AIR TEMP. DRY 20.7, WET . CLOUD. TYPE CI, AMT 07, WEATHER BC,

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
10	18.29	33.800	*****							10	19.29	33.800	*****	24.30	363	363	0.0385
20	14.39	33.910	*****							20	14.39	33.910	*****	25.28	270	270	0.0702
30	11.48	34.090	*****							30	11.48	34.090	*****	25.99	201	202	0.0938
50	11.02	34.310	*****							50	11.02	34.310	*****	26.25	177	178	0.1319
75	10.93	34.330	*****							75	10.93	34.330	*****	26.28	174	176	0.1763
87	10.92	34.340	*****														
KOREA ,HAN RA SAN , STATION 312-06 , 34-04.1. N, 125-18.0. E, JUN. 9.1982, 14:35 KST, DEPTH 103 , COLOR 3, TRANS. 12.0,																	
WAVE 1, SWELL 1, WIND NE 2, BARO 1016.5, AIR TEMP. DRY 20.4, WET , CLOUD. TYPE CI, AMT 01, WEATHER B ;																	
0	19.19	33.620	*****							0	19.19	33.620	*****	23.94	397	397	0.0000
10	16.54	33.780	*****							10	16.54	33.780	*****	24.70	324	324	0.0361
20	13.58	33.910	*****							20	13.58	33.910	*****	25.45	254	254	0.0650
30	11.66	33.910	*****							30	11.66	33.910	*****	25.82	218	218	0.0887
50	11.24	34.110	*****							50	11.24	34.110	*****	26.05	196	197	0.1303
75	10.95	34.200	*****							75	10.95	34.200	*****	26.18	184	185	0.1782
100	10.80	34.200	*****							100	10.80	34.200	*****	26.20	182	183	0.2244
KOREA ,HAN RA SAN , STATION 312-07 , 34-05.5. N, 125-00.0. E, JUN. 9.1982, 12:00 KST, DEPTH 93 , COLOR 3, TRANS. 14.0,																	
WAVE 1, SWELL 1, WIND E 1, BARO 1017.5, AIR TEMP. DRY 20.4, WET , CLOUD. TYPE , AMT 00, WEATHER B ;																	
0	17.54	33.890	*****							0	17.54	33.890	*****	24.55	339	339	0.0000
10	14.71	33.960	*****							10	14.71	33.960	*****	25.25	272	272	0.0305
20	14.23	33.960	*****							20	14.23	33.960	*****	25.35	263	263	0.0574
30	13.04	34.020	*****							30	13.04	34.020	*****	25.64	235	235	0.0823
50	12.24	34.090	*****							50	12.24	34.080	*****	25.84	216	217	0.1276
75	10.22	34.150	*****							75	10.22	34.150	*****	26.27	176	177	0.1770
99	10.17	34.350	*****														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY

KOREA ,HAN RA SAN , STATION 312-08 , 34-05.5. N, 124-48.0. E, JUN. 9.1982, 10:10 KST, DEPTH 92 , COLOR 3, TRANS. 18.0,
 WAVE 1, SWELL 1, WIND E 1, BARO 1018.3, AIR TEMP. DRY 19.1, WET , CLOUD. TYPE , AMT 00, WEATHER B ,
 0 17.99 33.890 *****
 10 17.09 33.890 *****
 20 13.44 33.950 *****
 30 12.24 33.980 *****
 50 9.66 34.050 *****
 75 9.36 34.050 *****
 87 9.43 34.090 *****

KOREA ,HAN RA SAN , STATION 312-09 , 34-05.5. N, 124-26.0. E, JUN. 9.1982, 08:20 KST, DEPTH 84 , COLOR 3, TRANS. 18.0,
 WAVE 1, SWELL 1, WIND NE 1, BARO 1018. , AIR TEMP. DRY 18.3, WET , CLOUD. TYPE , AMT 00, WEATHER B ,
 0 17.30 33.770 *****
 10 15.27 33.800 *****
 20 13.50 33.820 *****
 30 12.46 33.870 *****
 50 10.43 33.960 *****
 80 9.42 33.960 *****

KOREA ,HAN RA SAN , STATION 312-10 , 34-05.5. N, 124-24.0. E, JUN. 9.1982, 06:35 KST, DEPTH 82 , COLOR 3, TRANS. 15.0,
 WAVE 1, SWELL 1, WIND NE 1, BARO 1017.5, AIR TEMP. DRY 18.5, WET , CLOUD. TYPE , AMT 00, WEATHER F ,
 0 17.59 33.210 *****
 10 15.26 33.530 *****
 20 12.39 33.660 *****
 30 11.92 33.660 *****

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	N02-N	N03-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY

50 8.92 33.660 *****
 77 8.80 33.730 *****

8月(August)

KOREA .HAN RA SAN , STATION 312-02 , 33-58.5. N, 126-06.0. E, AUG.17.1982, 11:53 KST, DEPTH 85 , COLOR 6, TRANS. 8.0,
 WAVE 1. SWELL 1. WIND E 2, BARO 1013. , AIR TEMP. DRY 26.6, WET , CLOUD. TYPE CJ, AMT 07, WEATHER BC,
 0 25.29 32.360 ***** 21.28 651 651 0.0000
 10 24.49 32.610 ***** 21.71 610 610 0.0631
 20 21.33 32.680 ***** 22.66 519 520 0.1196
 30 19.91 32.760 ***** 23.10 478 478 0.1696
 50 17.96 33.030 ***** 23.79 411 412 0.2587
 80 12.65 33.060 ***** 24.80 315 317 0.3500

KOREA .HAN RA SAN , STATION 312-03 , 33-59.8. N, 126-54.0. E, AUG.17.1982, 13:40 KST, DEPTH 70 , COLOR 5, TRANS. 9.0,
 WAVE 2. SWELL 1. WIND E 2, BARO 1013.5, AIR TEMP. DRY 27.1, WET , CLOUD. TYPE AC, AMT 06, WEATHER BC,
 0 25.30 32.320 ***** 21.25 655 654 0.0000
 10 24.51 32.380 ***** 21.53 627 627 0.0641
 20 22.01 33.170 ***** 22.84 502 502 0.1206
 30 19.82 33.280 ***** 23.51 438 438 0.1677
 50 14.82 33.350 ***** 24.76 319 320 0.2436
 65 12.77 33.570 *****

KOREA .HAN RA SAN , STATION 312-04 , 34-01.3. N, 125-42.0. E, AUG.17.1982, 11:55 KST, DEPTH 82 , COLOR 5, TRANS. 10.0,
 WAVE 2. SWELL 2. WIND E 2, BARO 1013. , AIR TEMP. DRY 27.0, WET , CLOUD. TYPE AS, AMT 08, WEATHER C ,
 0 24.91 32.480 ***** 21.49 632 631 0.0000

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

10	24.28	32.500	****							10	24.28	32.500	****	21.69	612	612	0.0622
20	23.16	33.830	****							20	23.16	33.830	****	23.02	485	485	0.1171
30	20.74	33.010	****							30	20.74	33.010	****	23.07	480	481	0.1655
50	15.11	33.130	****							50	15.11	33.130	****	24.52	341	342	0.2479
77	11.75	33.220	****							75	11.99	33.213	****	25.22	275	277	0.3254

KOREA ,HAN RA SAN , STATION 312-05 , 34-02.6. N, 125-30.0. E, AUG.17.1982, 10:05 KST, DEPTH 90 , COLOR 5, TRANS. 10.5,
 WAVE 2, SWELL 2, WIND SE 2, BARO 1013.5, AIR TEMP. DRY 25.8, WET , CLOUD. TYPE AC, AMT 04, WEATHER BC,

0	25.72	33.360	****							0	25.72	33.360	****	21.90	592	592	0.0000
10	24.79	32.360	****							10	24.79	32.360	****	21.43	637	637	0.0614
20	24.47	32.740	****							20	24.47	32.740	****	21.81	600	601	0.1234
30	21.69	33.030	****							30	21.69	33.030	****	22.83	503	504	0.1786
50	15.91	33.220	****							50	15.91	33.220	****	24.42	352	353	0.2644
75	11.04	33.240	****							75	11.04	33.240	****	25.41	257	258	0.3408
85	11.10	33.310	****														

KOREA ,HAN RA SAN , STATION 312-06 , 34-04.1. N, 125-18.0. E, AUG.17.1982, 08:15 KST, DEPTH 101 , COLOR 4, TRANS. 11.0,
 WAVE 2, SWELL 1, WIND SE 2, BARO 1013.5, AIR TEMP. DRY 24.2, WET , CLOUD. TYPE AB, AMT 08, WEATHER C ,

0	23.81	32.030	****							0	23.81	32.030	****	21.47	633	633	0.0000
10	23.00	32.470	****							10	23.00	32.470	****	22.04	579	579	0.0606
20	22.39	32.830	****							20	22.39	32.830	****	22.48	536	537	0.1164
30	18.35	32.830	****							30	18.35	32.830	****	23.54	435	435	0.1651
50	15.13	32.900	****							50	15.13	32.900	****	24.34	359	360	0.2447
75	11.04	33.210	****							75	11.04	33.210	****	25.39	259	260	0.3223
96	10.96	33.330	****														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA .HAN RA SAN , STATION 312-07 , 34-05.5. N, 125-00.0. E, AUG.17.1982, 05:40 KST, DEPTH 90 , COLOR , TRANS.
 WAVE 2. SWELL 1. WIND SE 3. BARO 1013.2, AIR TEMP. DRY 24.6. WET , CLOUD. TYPE C1, AMT 06, WEATHER EC,
 0 24.30 31.940 ***** 0 24.30 31.960 ***** 21.27 652 652 0.0000
 10 24.01 31.940 ***** 10 24.01 31.940 ***** 21.34 645 645 0.0648
 20 22.73 32.790 ***** 20 22.73 32.790 ***** 22.35 548 549 0.1246
 30 18.15 32.720 ***** 30 18.15 32.920 ***** 23.66 424 424 0.1733
 50 14.98 33.120 ***** 50 14.98 33.120 ***** 24.54 339 340 0.2498
 75 10.90 33.150 ***** 75 10.90 33.150 ***** 25.37 261 262 0.3253
 85 10.83 33.190 *****

KOREA .HAN RA SAN , STATION 312-08 , 34-05.5. N, 124-48.0. E, AUG.17.1982, 03:50 KST, DEPTH 90 , COLOR , TRANS.
 WAVE 2. SWELL 1. WIND SE 3. BARO 1013.5, AIR TEMP. DRY 24.5. WET , CLOUD. TYPE AS, AMT 10, WEATHER C ,
 0 24.32 31.920 ***** 0 24.32 31.920 ***** 21.24 655 655 0.0000
 10 23.26 32.120 ***** 10 23.26 32.120 ***** 21.70 611 611 0.0633
 20 21.51 32.650 ***** 20 21.51 32.650 ***** 22.59 526 527 0.1203
 30 17.97 32.720 ***** 30 17.97 32.720 ***** 23.55 434 435 0.1684
 50 15.73 32.860 ***** 50 15.73 32.860 ***** 24.18 374 375 0.2494
 75 11.58 32.950 ***** 75 11.58 32.950 ***** 25.09 287 289 0.3325
 85 10.89 33.040 *****

KOREA .HAN RA SAN , STATION 312-09 , 34-05.5. N, 124-36.0. E, AUG.17.1982, 02:00 KST, DEPTH 85 , COLOR , TRANS.
 WAVE 3. SWELL 2. WIND SE 3. BARO 1013. , AIR TEMP. DRY 24.6. WET , CLOUD. TYPE AS, AMT 10, WEATHER C ,
 0 24.52 31.800 ***** 0 24.52 31.800 ***** 21.09 670 669 0.0000
 10 24.03 31.780 ***** 10 24.03 31.780 ***** 21.22 657 657 0.0663
 20 22.89 31.980 ***** 20 22.89 31.980 ***** 21.70 611 612 0.1278

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
30	18.45	32.180	*****							30	18.45	32.180	*****	23.02	485	485	0.1847
50	11.12	32.660	*****							50	11.12	32.660	*****	24.95	301	301	0.2635
80	10.23	33.170	*****							75	10.37	33.085	*****	25.41	257	258	0.3335
KOREA ,HAN RA SAN , STATION 312-10 , 34-05.5. N, 124-24.0. E, AUG.17.1982, 00:15 KST, DEPTH 80 , COLOR , TRANS.																	
WAVE 2, SWELL 1, WIND SE 3, BARO 1012. , AIR TEMP. DRY 23.5, WET , CLOUD. TYPE CI, AMT 06, WEATHER BC,																	
0	25.60	31.730	*****							0	25.60	31.730	*****	20.71	706	706	0.0000
10	24.21	31.710	*****							10	24.21	31.710	*****	21.11	667	667	0.0686
20	23.08	31.730	*****							20	23.08	31.730	*****	21.45	635	635	0.1338
30	18.54	32.630	*****							30	18.54	32.630	*****	23.34	454	454	0.1883
50	9.73	33.130	*****							50	9.73	33.130	*****	25.55	243	244	0.2583
75	9.66	33.210	*****							75	9.66	33.210	*****	25.63	236	237	0.3186

10月(October)

KOREA ,HAN RA SAN , STATION 312-02 , 33-58.5. N, 126-06.0. E, OCT.13.1982, 09:55 KST, DEPTH 86 , COLOR 5, TRANS. 10.0,																	
WAVE 1, SWELL , WIND SE 1, BARO 1024.8, AIR TEMP. DRY 20.1, WET , CLOUD. TYPE CI, AMT 01, WEATHER B ,																	
0	21.92	31.620	5.00							0	21.92	31.620	5.00	21.70	612	611	0.0000
10	20.04	32.050	5.21							10	20.04	32.050	5.21	22.52	532	532	0.0572
20	19.47	32.550	5.26							20	19.47	32.550	5.26	23.05	482	482	0.1080
30	16.83	32.880	5.00							30	16.83	32.880	5.00	23.94	397	397	0.1520
50	14.93	33.040	4.26							50	14.93	33.040	4.26	24.49	344	345	0.2263
80	13.41	33.300	4.39							75	13.66	33.256	4.36	24.93	303	305	0.3077
KOREA ,HAN RA SAN , STATION 312-03 , 33-59.8. N, 126-54.0. E, OCT.13.1982, 08:10 KST, DEPTH 73 , COLOR 5, TRANS. 10.0,																	
WAVE 2, SWELL 1, WIND E 2, BARO 1025. , AIR TEMP. DRY 19.5, WET , CLOUD. TYPE CI, AMT 02, WEATHER B ,																	
0	21.60	31.560	5.61							0	21.60	31.560	5.61	21.74	608	607	0.0000

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

10	19.33	32.290	5.59						10	19.33	32.290	5.59	22.89	497	497	0.0552
20	16.22	32.790	5.41						20	16.22	32.790	5.41	24.02	390	390	0.0997
30	15.30	32.990	5.06						30	15.30	32.990	5.06	24.37	356	356	0.1370
50	13.62	33.020	4.74						50	13.62	33.020	4.74	24.75	320	321	0.2048
69	11.24	33.460	4.61													

KOREA , HAN RA SAN , STATION 312-04 , 34-01.3. N, 125-42.0. E, OCT.13.1982, 06:25 KST, DEPTH 84 , COLOR , TRANS. ,

WAVE 2. SWELL 1, WIND E 2, BARO 1024.5, AIR TEMP. DRY 20.0, WET , CLOUD. TYPE CI, AMT O1, WEATHER B ,

0	20.51	31.600	5.49						0	20.51	31.600	5.49	22.06	577	576	0.0000
10	18.05	32.150	5.56						10	18.05	32.150	5.56	23.10	477	477	0.0527
20	14.50	32.700	5.25						20	16.50	32.700	5.25	23.88	402	403	0.0967
30	15.65	32.920	5.04						30	15.65	32.920	5.04	24.24	368	369	0.1353
50	14.68	33.100	4.78						50	14.68	33.100	4.78	24.59	335	336	0.2059
80	10.78	33.480	4.51						75	11.43	33.416	4.55	25.48	250	252	0.2794

KOREA , HAN RA SAN , STATION 312-05 , 34-02.6. N, 125-30.0. E, OCT.13.1982, 04:35 KST, DEPTH 92 , COLOR , TRANS. ,

WAVE 2. SWELL 1, WIND NE 2, BARO 1024. , AIR TEMP. DRY 20.3, WET , CLOUD. TYPE CI, AMT O1, WEATHER B ,

0	19.40	31.650	5.49						0	19.40	31.650	5.49	22.38	546	545	0.0000
10	17.69	32.150	5.26						10	17.69	32.150	5.26	23.18	469	469	0.0507
20	16.68	32.760	4.91						20	16.68	32.760	4.91	23.89	402	402	0.0943
30	15.92	32.860	4.82						30	15.92	32.860	4.82	24.14	378	379	0.1334
50	14.46	33.080	4.53						50	14.46	33.080	4.53	24.62	332	333	0.2047
75	10.76	33.600	4.51						75	10.76	33.600	4.51	25.74	225	226	0.2747
87	10.72	33.660	4.45													

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA , HAN RA SAN , STATION 312-06 , 34-04.1. N, 125-18.0. E, OCT.13.1982, 02:45 KST, DEPTH 103 , COLOR , TRANS.

WAVE 2, SWELL 1, WIND NE 2, BARO 1024.5, AIR TEMP. DRY 20.8, WET , CLOUD. TYPE CI, AMT 01, WEATHER B ,

0	21.55	31.850	5.13							0	21.55	31.850	5.13	21.97	585	585	0.0000
10	20.42	32.000	5.11							10	20.42	32.000	5.11	22.39	545	545	0.0565
20	17.48	32.610	4.90							20	17.48	32.610	4.90	23.59	431	431	0.1054
30	16.56	32.700	4.83							30	16.56	32.700	4.83	23.87	404	404	0.1472
50	14.55	33.170	4.68							50	14.55	33.170	4.68	24.67	327	328	0.2205
75	14.72	33.260	4.52							75	14.72	33.260	4.52	24.71	324	325	0.3023
100	10.05	33.590	4.31							100	10.05	33.590	4.31	25.86	214	216	0.3701

KOREA , HAN RA SAN , STATION 312-07 , 34-05.5. N, 125-00.0. E, OCT.13.1982, 00:10 KST, DEPTH 91 , COLOR , TRANS.

WAVE 2, SWELL 1, WIND NE 2, BARO 1025.1, AIR TEMP. DRY 21.5, WET , CLOUD. TYPE CI, AMT 02, WEATHER B ,

0	22.10	31.400	5.71							0	22.10	31.400	5.71	21.48	632	632	0.0000
10	22.02	32.000	5.41							10	22.02	32.000	5.41	21.96	587	587	0.0609
20	19.34	32.200	5.01							20	19.34	32.200	5.01	22.82	504	505	0.1155
30	17.55	32.740	4.91							30	17.55	32.740	4.91	23.67	423	423	0.1620
50	14.61	32.970	4.77							50	14.61	32.970	4.77	24.51	343	344	0.2388
75	10.67	33.480	4.71							75	10.67	33.480	4.71	25.67	233	234	0.3112
86	10.21	33.510	4.70														

KOREA , HAN RA SAN , STATION 312-08 , 34-05.5. N, 124-48.0. E, OCT.12.1982, 22:20 KST, DEPTH 92 , COLOR , TRANS.

WAVE 2, SWELL 1, WIND N 2, BARO 1025. , AIR TEMP. DRY 21.2, WET , CLOUD. TYPE CI, AMT 03, WEATHER BC,

0	22.42	31.330	5.73							0	22.42	31.330	5.73	21.34	646	645	0.0000
10	22.34	31.370	5.65							10	22.34	31.370	5.65	21.39	641	641	0.0643
20	22.26	31.470	5.50							20	22.26	31.470	5.50	21.49	631	632	0.1280
30	19.23	32.160	4.92							30	19.23	32.160	4.92	22.81	505	505	0.1849

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY
10	12.31	32.860	5.06							10	12.31	32.860	5.06	24.89	307	307	0.0305
20	12.35	32.860	5.09							20	12.35	32.860	5.09	24.88	308	308	0.0613
30	12.33	32.880	5.20							30	12.33	32.880	5.20	24.90	306	306	0.0920
50	12.17	32.920	5.12							50	12.17	32.920	5.12	24.96	300	301	0.1528
81	11.65	32.930	5.14							75	11.75	32.928	5.13	25.04	292	293	0.2271
KOREA JAPAN RA SAN , STATION 312-03 , 33-59.8. N, 126-54.0. E, DEC.29.1982. 07:35 KST, DEPTH 73 , COLOR , TRANS.																	
WAVE 2. SWELL 1. WIND SW 3, BARO 1023. , AIR TEMP. DRY 10.2. WET , CLOUD. TYPE AC. AMT 04, WEATHER EC.																	
0	12.73	33.010	5.22							0	12.73	33.010	5.22	24.92	303	303	0.0000
10	12.76	33.000	5.21							10	12.76	33.000	5.21	24.91	305	305	0.0304
20	12.93	33.100	5.15							20	12.93	33.100	5.15	24.95	301	301	0.0607
30	12.87	33.180	5.22							30	12.87	33.180	5.22	25.03	294	294	0.0905
50	12.81	33.220	5.29							50	12.81	33.220	5.20	25.07	290	290	0.1490
70	12.55	33.330	5.09														
KOREA JAPAN RA SAN , STATION 312-04 , 34-01.3. N, 125-42.0. E, DEC.29.1982. 05:50 KST, DEPTH 85 , COLOR , TRANS.																	
WAVE 2. SWELL 1. WIND SW 3, BARO 1022. , AIR TEMP. DRY 11.2. WET , CLOUD. TYPE AC. AMT 03, WEATHER EC.																	
0	13.30	33.050	5.16							0	13.30	33.050	5.16	24.84	311	311	0.0000
10	13.25	33.120	5.29							10	13.25	33.120	5.29	24.90	305	305	0.0308
20	13.40	33.180	5.18							20	13.40	33.180	5.18	24.92	304	304	0.0613
30	13.43	33.230	5.31							30	13.43	33.230	5.31	24.95	301	301	0.0916
50	13.39	33.260	5.19							50	13.39	33.260	5.19	24.98	298	298	0.1516
80	13.34	33.270	5.00							75	13.34	33.268	5.03	25.00	296	298	0.2263
KOREA JAPAN RA SAN , STATION 312-05 , 34-02.6. N, 125-30.0. E, DEC.29.1982. 04:00 KST, DEPTH 95 , COLOR , TRANS.																	
WAVE 2. SWELL 1. WIND SW 3, BARO 1023. , AIR TEMP. DRY 11.8. WET , CLOUD. TYPE CI, AMT 02, WEATHER F.																	
0	13.50	33.070	5.31							0	13.50	33.070	5.31	24.82	314	313	0.0000

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
10	13.57	33.130	5.24							10	13.57	33.130	5.24	24.85	311	310	0.0312
20	13.75	33.220	5.30							20	13.75	33.220	5.30	24.88	307	308	0.0621
30	13.80	33.220	5.19							30	13.80	33.220	5.19	24.87	308	309	0.0930
50	13.85	33.300	5.22							50	13.85	33.300	5.22	24.92	304	304	0.1545
75	13.87	33.280	5.00							75	13.87	33.280	5.00	24.90	305	307	0.2310
90	13.85	33.320	5.05														
KOREA HAN RA SAN , STATION 312-06 , 34-04.1. N, 125-18.0. E, DEC.29.1982, 02:10 KST, DEPTH 103 , COLOR , TRANS. ,																	
WAVE 2, SWELL 1, WIND SW 3, BARO 1023. , AIR TEMP. DRY 11.5, WET , CLOUD. TYPE AC, AMT 06, WEATHER BC,																	
0	12.50	32.790	5.40							0	12.50	32.790	5.40	24.80	315	315	0.0000
10	12.34	32.790	5.48							10	12.34	32.790	5.48	24.83	313	312	0.0314
20	12.28	32.830	5.60							20	12.28	32.830	5.60	24.87	308	309	0.0625
30	12.35	32.850	5.50							30	12.35	32.850	5.50	24.87	308	309	0.0934
50	12.41	32.940	5.42							50	12.41	32.940	5.42	24.93	303	304	0.1547
75	12.37	32.970	5.23							75	12.37	32.970	5.23	24.96	300	301	0.2304
100	12.04	32.990	5.20							100	12.04	32.990	5.20	25.04	292	294	0.3050
KOREA HAN RA SAN , STATION 312-07 , 34-05.5. N, 125-00.0. E, DEC.28.1982, 23:35 KST, DEPTH 91 , COLOR , TRANS. ,																	
WAVE 3, SWELL 2, WIND SW 4, BARO 1023. , AIR TEMP. DRY 12.0, WET , CLOUD. TYPE AC, AMT 03, WEATHER BC,																	
0	11.50	32.650	5.39							0	11.50	32.650	5.39	24.87	308	308	0.0000
10	11.61	32.650	5.59							10	11.61	32.650	5.59	24.85	310	310	0.0309
20	11.61	32.700	5.61							20	11.61	32.700	5.61	24.87	306	306	0.0617
30	11.86	32.720	5.48							30	11.86	32.720	5.48	24.86	309	309	0.0926
50	11.81	32.720	5.52							50	11.81	32.720	5.52	24.87	308	309	0.1545
75	11.60	32.770	5.35							75	11.60	32.770	5.35	24.95	301	302	0.2310
86	11.58	32.790	5.24														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA ,HAN RA SAN , STATION 312-08 . 34-05.5. N, 124-48.0. E. DEC.28.1982. 21:50 KST, DEPTH 93 , COLOR , TRANS.
 WAVE 3. SWELL 2. WIND SW 4. BARO 1024. . AIR TEMP. DRY 12.2, WET . CLOUD. TYPE AC. AMT 03, WEATHER BC.
 0 12.00 32.740 5.65 0 12.00 32.740 5.65 24.85 310 310 0.0000
 10 12.03 32.830 5.59 10 12.03 32.830 5.59 24.92 304 304 0.0307
 20 12.00 32.830 5.60 20 12.00 32.830 5.60 24.92 303 304 0.0611
 30 12.15 32.860 5.61 30 12.15 32.860 5.61 24.92 304 304 0.0916
 50 12.15 32.860 5.58 50 12.15 32.860 5.58 24.92 304 305 0.1526
 75 12.04 32.860 5.58 75 12.04 32.860 5.58 24.94 302 303 0.2287
 88 11.88 32.970 5.50

KOREA ,HAN RA SAN . STATION 312-09 . 34-05.5. N, 124-36.0. E. DEC.28.1982. 20:00 KST, DEPTH 86 , COLOR , TRANS.
 WAVE 3. SWELL 2. WIND SW 4. BARO 1024.5. AIR TEMP. DRY 12.1, WET . CLOUD. TYPE AC. AMT 02, WEATHER B ,
 0 12.51 32.970 5.29 0 12.51 32.970 5.29 24.93 302 302 0.0000
 10 12.10 32.970 5.21 10 12.10 32.970 5.21 25.01 295 295 0.0298
 20 12.61 32.970 5.39 20 12.61 32.970 5.39 24.91 304 304 0.0599
 30 12.58 33.030 5.28 30 12.58 33.030 5.28 24.97 299 300 0.0901
 50 12.47 33.040 5.32 50 12.47 33.040 5.32 24.99 296 297 0.1499
 81 12.41 33.080 5.28 75 12.42 33.072 5.28 25.03 293 295 0.2240

KOREA ,HAN RA SAN , STATION 312-10 . 34-05.5. N, 124-24.0. E. DEC.28.1982. 18:15 KST, DEPTH 80 , COLOR , TRANS. ,
 WAVE 3. SWELL 2. WIND SW 4. BARO 1024. . AIR TEMP. DRY 11.8, WET . CLOUD. TYPE AS. AMT 02, WEATHER B ,
 0 12.31 32.920 5.22 0 12.31 32.920 5.22 24.93 302 302 0.0000
 10 12.33 32.920 5.29 10 12.33 32.920 5.29 24.93 303 303 0.0302
 20 12.42 32.940 5.12 20 12.42 32.940 5.12 24.93 303 303 0.0606
 30 12.26 32.950 5.26 30 12.26 32.950 5.26 24.97 299 300 0.0903
 50 11.89 32.970 5.12 50 11.89 32.970 5.12 25.05 291 292 0.1500
 75 11.79 33.040 5.18 75 11.79 33.040 5.18 25.12 294 286 0.2224

第三編

韓日共同海洋觀測成績 (400線)

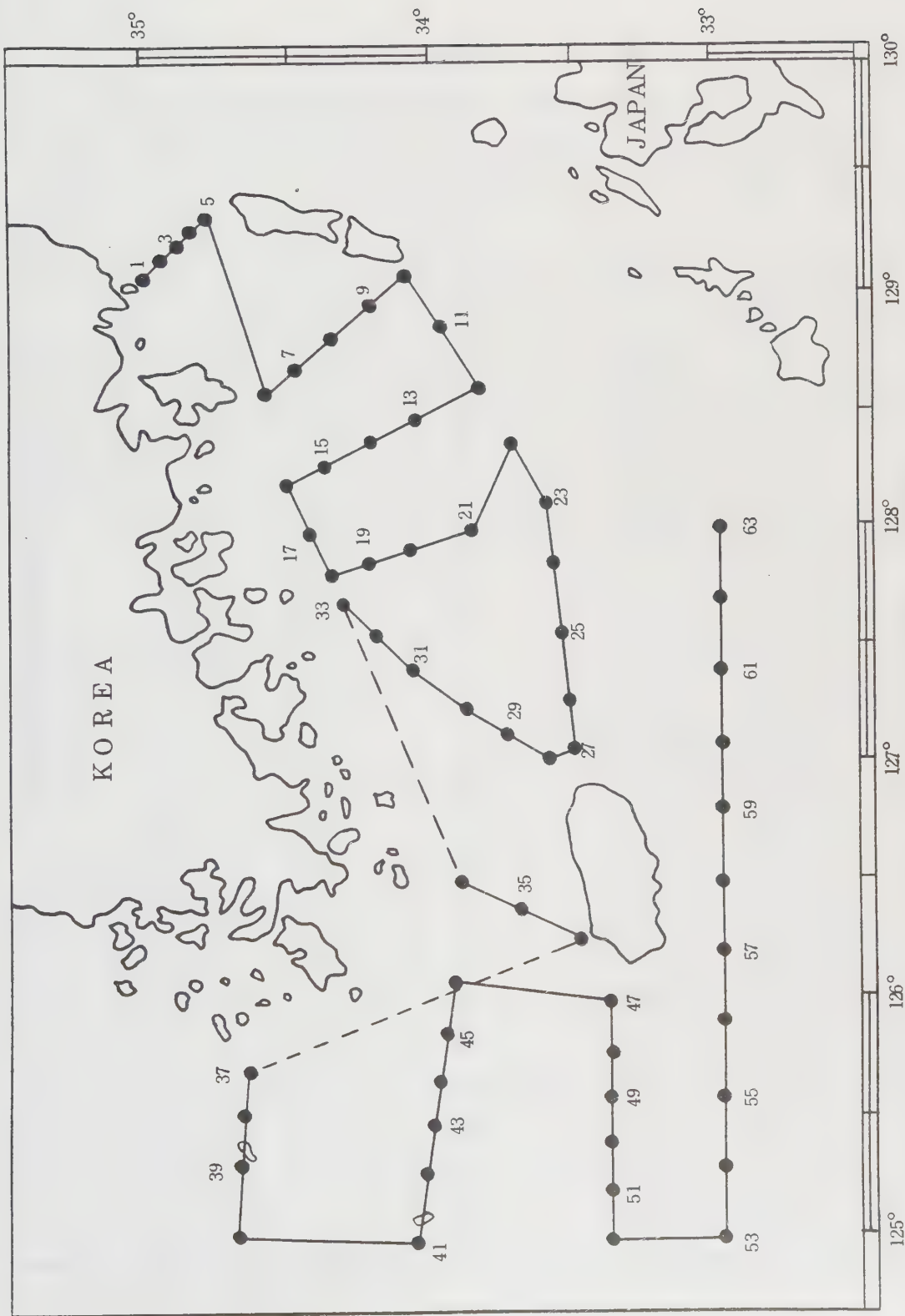
(水温, 塩分, 酸素 및 氣象觀測資料)

PART 3

KOREA-JAPAN COOPERATIVE OCEANOGRAPHIC DATA (Line 400)

(Temperature, Salinity, Oxygen and Meteorological Data)

1 9 8 2



韓日 共同 海洋觀測點 位置圖
Location of the Korea-Japan Cooperative Oceanographic Stations

韓日 共同 海洋觀測點 位置表

Position of the Korea-Japan Cooperative Oceanographic Stations

St. No.	Latitude (N)	Longitude (E)	Serial Ocean St. No.	St. No.	Latitude (N)	Longitude (E)	Serial Ocean St. No.
01	35° 01.3'	129° 07.2'	207 / 01	33	34° 20.8'	127° 43.9'	204 / 01
02	34° 57.6'	129° 11.2'	02	34	33° 56.6'	126° 31.4'	203 / 01
03	34° 53.9'	129° 15.4'	03	35	33° 47.5'	126° 26.3'	02
04	34° 50.2'	129° 19.5'	04	36	33° 38.3'	126° 21.3'	03
05	34° 48.0'	129° 21.8'	05	37	34° 43.0'	125° 43.9'	311 / 04
06	34° 35.5'	128° 34.5'	206 / 01	38	34° 43.0'	125° 31.9'	05
07	34° 29.6'	128° 41.2'	02	39	34° 43.0'	125° 19.4'	06
08	34° 22.4'	128° 49.7'	03	40	34° 43.0'	125° 00.0'	07
09	34° 15.3'	128° 58.0'	04	41	34° 05.5'	125° 00.0'	312 / 07
10	34° 08.1'	129° 06.3'	05	42	34° 04.1'	125° 18.0'	06
11	33° 58.3'	128° 54.0'		43	34° 02.6'	125° 30.0'	05
12	33° 51.7'	128° 39.0'		44	34° 01.3'	125° 42.0'	04
13	34° 04.6'	128° 30.0'		45	33° 59.8'	125° 54.0'	03
14	34° 13.5'	128° 24.0'		46	33° 58.5'	126° 06.0'	02
15	34° 22.2'	128° 18.4'		47	33° 24.4'	126° 00.0'	313 / 02
16	34° 31.0'	128° 12.2'		48	33° 24.4'	125° 48.0'	03
17	34° 27.0'	128° 00.5'		49	33° 24.4'	125° 36.0'	04
18	34° 22.3'	127° 48.5'	205 / 01	50	33° 24.4'	125° 24.0'	05
19	34° 15.0'	127° 52.1'	02	51	33° 24.4'	125° 12.0'	06
20	34° 05.5'	127° 56.9'	03	52	33° 24.4'	125° 00.0'	07
21	33° 51.5'	128° 03.0'	04	53	33° 00.0'	125° 00.0'	314 / 10
22	33° 44.3'	128° 23.9'		54	33° 00.0'	125° 18.0'	09
23	33° 37.3'	128° 09.2'	205 / 05	55	33° 00.0'	125° 36.0'	08
24	33° 35.6'	127° 51.9'		56	33° 00.0'	125° 54.0'	07
25	33° 33.6'	127° 34.0'		57	33° 00.0'	126° 12.0'	06
26	33° 31.7'	127° 11.8'		58	33° 00.0'	126° 30.0'	05
27	33° 30.3'	127° 04.5'		59	33° 00.0'	126° 48.0'	04
28	33° 35.8'	127° 03.2'	204 / 06	60	33° 00.0'	127° 06.0'	03
29	33° 45.5'	127° 09.2'	05	61	33° 00.0'	127° 24.0'	02
30	33° 54.1'	127° 15.2'	04	62	33° 00.0'	127° 42.0'	01
31	34° 06.7'	127° 26.8'	03	63	33° 00.0'	128° 00.0'	00
32	34° 13.7'	127° 35.4'	02				

400線 海洋觀測 成績

Oceanographic Data. Line 400

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY

2月(February)

KOREA , TAE BAEK SAN , STATION 400-11 , 33-58.3. N, 128-54.0. E, FEB. 9.1982, 18:10 KST, DEPTH 110 , COLOR , TRANS. ,																	
WAVE NW 4, SWELL NW 3, WIND NW 5, BARO 1021.5, AIR TEMP. DRY 7.2, WET , CLOUD. TYPE AS, AMT 04, WEATHER BC,																	
0	14.70	34.560	*****							0	14.70	34.560	*****	25.71	228	228	0.0000
9	14.12	34.570	*****							10	14.11	34.570	*****	25.84	216	216	0.0252
19	14.11	34.570	*****							20	14.11	34.567	*****	25.84	216	216	0.0438
29	14.14	34.540	*****							30	14.14	34.540	*****	25.82	218	219	0.0656
52	14.14	34.540	*****							50	14.14	34.540	*****	25.82	218	219	0.1096
76	13.65	34.500	*****							75	13.67	34.501	*****	25.88	212	214	0.1638
100	13.28	34.480	*****							100	13.28	34.480	*****	25.95	206	208	0.2166
KOREA , TAE BAEK SAN , STATION 400-12 , 33-51.7. N, 128-39.0. E, FEB. 9.1982, 20:00 KST, DEPTH 100 , COLOR , TRANS. ,																	
WAVE NW 4, SWELL NW 3, WIND NW 5, BARO 1021.5, AIR TEMP. DRY 6.8, WET , CLOUD. TYPE AS, AMT 04, WEATHER BC,																	
0	13.27	34.510	*****							0	13.27	34.510	*****	25.97	203	203	0.0000
9	13.27	34.510	*****							10	13.28	34.510	*****	25.97	204	204	0.0203
19	13.37	34.510	*****							20	13.36	34.510	*****	25.95	205	206	0.0408
29	13.33	34.510	*****							30	13.32	34.510	*****	25.96	205	205	0.0614
52	13.26	34.510	*****							50	13.26	34.510	*****	25.97	203	204	0.1025
76	13.17	34.520	*****							75	13.17	34.519	*****	26.00	201	203	0.1535
96	12.98	34.510	*****														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY

KOREA ,TAE BAEK SAN , STATION 400-13 , 34-04.6. N, 128-30.0. E, FEB. 9.1982, 15:55 KST, DEPTH 93 , COLOR 4, TRANS. 12.0,
 WAVE NW 3, SWELL NW 2, WIND NW 4, BARO 1022.5, AIR TEMP. DRY 6.9, WET , CLOUD. TYPE AS, AMT 04, WEATHER BC,
 0 12.65 34.490 ***** 0 12.65 34.490 ***** 26.08 193 193 0.0000
 10 12.72 34.500 ***** 10 12.72 34.500 ***** 26.08 194 194 0.0193
 20 12.62 34.500 ***** 20 12.62 34.500 ***** 26.10 192 192 0.0387
 30 11.56 34.460 ***** 30 11.56 34.460 ***** 26.27 176 176 0.0571
 49 11.30 34.430 ***** 50 11.29 34.430 ***** 26.29 173 174 0.0922
 74 11.15 34.450 ***** 75 11.14 34.449 ***** 26.34 169 170 0.1354
 89 11.05 34.440 *****

KOREA ,TAE BAEK SAN , STATION 400-14 , 34-13.5. N, 128-24.0. E, FEB. 9.1982, 14:25 KST, DEPTH 80 , COLOR 5, TRANS. 12.0,
 WAVE NW 3, SWELL NW 2, WIND NW 4, BARO 1022. , AIR TEMP. DRY 6.2, WET , CLOUD. TYPE AS, AMT 04, WEATHER BC,
 0 11.78 34.460 ***** 0 11.78 34.460 ***** 26.23 179 179 0.0000
 10 11.45 34.390 ***** 10 11.45 34.390 ***** 26.23 179 179 0.0179
 20 11.27 34.420 ***** 20 11.27 34.420 ***** 26.29 173 174 0.0356
 30 11.55 34.410 ***** 30 11.35 34.410 ***** 26.27 176 176 0.0531
 50 11.29 34.410 ***** 50 11.29 34.410 ***** 26.28 175 175 0.0883
 75 11.27 34.420 ***** 75 11.27 34.420 ***** 26.29 173 175 0.1322

KOREA ,TAE BAEK SAN , STATION 400-15 , 34-22.2. N, 128-18.4. E, FEB. 9.1982, 13:00 KST, DEPTH 70 , COLOR 4, TRANS. 11.0,
 WAVE NW 2, SWELL NW 1, WIND NW 3, BARO 1023.5, AIR TEMP. DRY 4.8, WET , CLOUD. TYPE AS, AMT 03, WEATHER BC,
 0 11.49 34.420 ***** 0 11.49 34.420 ***** 26.25 177 177 0.0000
 10 11.47 34.400 ***** 10 11.47 34.400 ***** 26.24 178 178 0.0178
 20 11.45 34.420 ***** 20 11.45 34.420 ***** 26.26 177 177 0.0356
 30 11.46 34.430 ***** 30 11.46 34.430 ***** 26.26 176 176 0.0533

OBSERVED										INTERPOLATED				CALCULATED		
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	D-DY

50 11.47 34.440 ***** 26.27 175 176 0.0886

67 11.37 34.450 *****

KOREA ,TAE BAEK SAN , STATION 400-16 , 34-31.0. N, 128-12.2. E, FEB. 9.1982, 09:40 KST, DEPTH 44 , COLOR 5, TRANS. 6.0,

WAVE NW 1, SWELL NW 1, WIND NW 2, BARO 1026.5, AIR TEMP. DRY 3.1, WET , CLOUD. TYPE , AMT , WEATHER B ,

0 10.87 34.450 ***** 26.39 164 164 0.0000

10 10.93 34.470 ***** 26.39 164 164 0.0164

20 10.87 34.450 ***** 26.39 164 164 0.0329

30 10.88 34.450 ***** 26.38 164 165 0.0494

40 10.91 34.440 *****

KOREA ,TAE BAEK SAN , STATION 400-17 , 34-27.0. N, 128-00.5. E, FEB. 9.1982, 11:20 KST, DEPTH 35 , COLOR 5, TRANS. 10.0,

WAVE NW 1, SWELL NW 1, WIND NW 2, BARO 1026.5, AIR TEMP. DRY 4.5, WET , CLOUD. TYPE , AMT , WEATHER B ,

0 10.96 34.430 ***** 26.35 167 167 0.0000

10 10.94 34.430 ***** 26.36 167 167 0.0167

20 10.78 34.420 ***** 26.38 165 165 0.0334

30 10.71 34.420 ***** 26.39 164 164 0.0499

33 10.73 34.430 *****

KOREA ,TAE BAEK SAN , STATION 400-22 , 33-44.3. N, 128-23.9. E, FEB. 9.1982, 22:30 KST, DEPTH 110 , COLOR , TRANS. ,

WAVE NW 4, SWELL NW 3, WIND NW 5, BARO 1022. , AIR TEMP. DRY 5.6, WET , CLOUD. TYPE AS, AMT 04, WEATHER BC,

0 14.14 34.570 ***** 25.84 216 216 0.0000

9 14.15 34.570 ***** 25.84 216 216 0.0216

19 14.15 34.560 ***** 25.87 217 217 0.0437

28 14.22 34.590 ***** 25.84 216 217 0.0651

33 14.22 34.590 ***** 25.84 216 217 0.1086

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D DY
76	14.15	34.570	*****							75	14.15	34.570	*****	25.84	216	218	0.1632
101	14.22	34.580	*****							100	14.21	34.579	*****	25.83	217	219	0.2180
KOREA ,TAE BAEK SAN , STATION 400-24 , 33-35.6. N, 127-51.9. E, FEB.12.1982, 19:00 KST, DEPTH 97 , COLOR , TRANS.																	
WAVE NW 3, SWELL NW 2, WIND NW 4, BARO 1021. , AIR TEMP. DRY 9.6, WET , CLOUD. TYPE AS, AMT 01, WEATHER B .																	
0	14.80	34.540	*****							0	14.80	34.540	*****	25.67	232	232	0.0000
10	14.77	34.560	*****							10	14.77	34.560	*****	25.70	230	230	0.0231
20	14.78	34.550	*****							20	14.78	34.550	*****	25.69	231	231	0.0451
30	14.77	34.530	*****							30	14.77	34.530	*****	25.67	232	232	0.0694
50	14.82	34.540	*****							50	14.82	34.540	*****	25.67	232	233	0.1160
75	14.77	34.550	*****							75	14.77	34.550	*****	25.69	230	232	0.1744
93	14.82	34.540	*****														
KOREA ,TAE BAEK SAN , STATION 400-25 , 33-33.6. N, 127-34.0. E, FEB.12.1982, 17:15 KST, DEPTH 90 , COLOR 3, TRANS. 12.0,																	
WAVE NW 3, SWELL NW 2, WIND NW 4, BARO 1021. , AIR TEMP. DRY 10.0, WET , CLOUD. TYPE AS, AMT 01, WEATHER B ,																	
0	14.91	34.520	*****							0	14.91	34.520	*****	25.64	236	235	0.0000
10	15.00	34.520	*****							10	15.00	34.520	*****	25.62	237	237	0.0236
20	15.01	34.530	*****							20	15.01	34.530	*****	25.62	237	237	0.0474
30	15.02	34.520	*****							30	15.02	34.520	*****	25.61	238	238	0.0712
51	15.02	34.550	*****							50	15.02	34.548	*****	25.63	236	237	0.1189
76	14.98	34.530	*****							75	14.98	34.530	*****	25.63	236	238	0.1783
86	15.12	34.530	*****														
KOREA ,TAE BAEK SAN , STATION 400-26 , 33-31.7. N, 127-11.8. E, FEB.12.1982, 15:30 KST, DEPTH 110 , COLOR 3, TRANS. 13.0,																	
WAVE NW 3, SWELL NW 2, WIND NW 4, BARO 1022. , AIR TEMP. DRY 10.1, WET , CLOUD. TYPE AS, AMT 02, WEATHER B ,																	
0	15.02	34.550	*****							0	15.02	34.550	*****	25.63	236	235	0.0000

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY

10	15.02	34.530	*****							10	15.02	34.530	*****	25.62	237	237	0.0236
20	15.00	34.540	*****							20	15.00	34.540	*****	25.63	236	236	0.0473
30	15.02	34.530	*****							30	15.02	34.530	*****	25.62	237	238	0.0711
51	15.07	34.560	*****							50	15.06	34.558	*****	25.63	236	237	0.1187
76	15.02	34.530	*****							75	15.02	34.531	*****	25.62	237	239	0.1783
102	15.11	34.540	*****							100	15.10	34.539	*****	25.61	238	241	0.2383

KOREA ,TAE BAEK SAN , STATION 400-27 , 33-30.3. N, 127-04.5. E, FEB.12.1982, 13:40 KST, DEPTH 130 , COLOR 5, TRANS. 10.0,
 WAVE NW 3, SWELL NW 2, WIND NW 4, BARO 1021. , AIR TEMP. DRY 8.9, WET , CLOUD. TYPE AS, AMT 08, WEATHER C ,

0	14.40	34.570	*****							0	14.40	34.570	*****	25.78	221	221	0.0000
10	14.34	34.530	*****							10	14.34	34.530	*****	25.77	223	223	0.0222
20	14.31	34.530	*****							20	14.31	34.530	*****	25.77	223	223	0.0446
30	14.32	34.520	*****							30	14.32	34.520	*****	25.76	223	224	0.0669
50	14.19	34.490	*****							50	14.19	34.490	*****	25.77	223	224	0.1119
75	14.11	34.480	*****							75	14.11	34.480	*****	25.78	222	224	0.1680
100	13.77	34.470	*****							100	13.77	34.470	*****	25.84	216	218	0.2234
113	13.70	34.480	*****														

4 月(April)

KOREA ,TAE BAEK SAN , STATION 400-11 , 33-58.3. N, 128-54.0. E, APR. 7.1982, 16:58 KST, DEPTH 110 , COLOR 5, TRANS. 11.0,
 WAVE NW 1, SWELL NW 1, WIND NW 2, BARO 1006. , AIR TEMP. DRY 19.2, WET , CLOUD. TYPE ST, AMT 05, WEATHER BC,

0	15.34	34.630	*****							0	15.34	34.630	*****	25.63	237	236	0.0000
10	15.36	*****	*****							10	15.36	34.615	*****	25.61	238	238	0.0237
20	15.23	34.600	*****							20	15.23	34.600	*****	25.63	236	237	0.0475
30	15.26	34.570	*****							30	15.26	34.570	*****	25.60	239	240	0.0714

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

50 15.22 34.570 *****
75 14.69 34.540 *****
100 13.31 34.470 *****

KOREA , TAE BAEK SAN , STATION 400-12 , 33-51.7. N, 128-39.0. E, APR. 7.1982, 19:00 KST, DEPTH 100 , COLOR 5, TRANS. 10.0.
WAVE NW 1, SWELL NW 1, WIND NW 3, BARO 1005.5, AIR TEMP. DRY 14.5, WET , CLOUD. TYPE ST, AMT 06, WEATHER BC,

0 15.27 34.620 *****
10 15.30 34.620 *****
20 15.31 34.620 *****
30 15.32 34.610 *****
50 15.28 34.600 *****
75 15.18 34.620 *****
95 14.24 34.630 *****

KOREA , TAE BAEK SAN , STATION 400-13 , 34-04.6. N, 128-30.0. E, APR. 7.1982, 14:33 KST, DEPTH 93 , COLOR 5, TRANS. 11.0,
WAVE N 1, SWELL N 1, WIND N 2, BARO 1009. , AIR TEMP. DRY 15.8, WET , CLOUD. TYPE ST, AMT 05, WEATHER BC,

0 15.19 34.570 *****
10 15.11 34.590 *****
20 14.18 34.560 *****
30 13.69 34.520 *****
50 13.29 34.550 *****
75 12.67 *****

KOREA , TAE BAEK SAN , STATION 400-14 , 34-13.5. N, 128-24.0. E, APR. 7.1982, 13:00 KST, DEPTH 83 , COLOR 5, TRANS. 11.0,
WAVE N 1, SWELL N 1, WIND N 2, BARO 1009. , AIR TEMP. DRY 14.4, WET , CLOUD. TYPE CU, AMT 06, WEATHER BC,
0 14.43 34.530 *****

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

10	14.29	34.520	*****							10	14.29	34.520	*****	25.77	223	223	0.0224
20	14.14	34.500	*****							20	14.14	34.500	*****	25.79	221	222	0.0446
30	13.73	34.460	*****							30	13.73	34.460	*****	25.84	216	217	0.0666
50	13.57	34.470	*****							50	13.52	34.470	*****	25.89	211	212	0.1096
75	12.84	34.430	*****							75	12.84	34.430	*****	26.00	201	203	0.1616

KOREA ,TAE BAEK SAN , STATION 400-15 , 34-22.2. N, 128-18.4. E, APR. 7.1982, 11:30 KST, DEPTH 55 , COLOR 5, TRANS. 11.0,

WAVE N 1, SWELL N 1, WIND N 2, BARO 1010. , AIR TEMP. DRY 14.6, WET , CLOUD. TYPE CU, AMT 06, WEATHER BC,

0	13.76	34.570	*****							0	13.76	34.570	*****	25.92	209	208	0.0000
10	13.69	34.490	*****							10	13.69	34.490	*****	25.87	213	213	0.0211
20	13.64	34.470	*****							20	13.64	34.470	*****	25.87	214	214	0.0425
30	13.01	34.430	*****							30	13.01	34.430	*****	25.96	204	205	0.0634
50	11.83	34.380	*****							50	11.83	34.380	*****	26.15	186	187	0.1027

KOREA ,TAE BAEK SAN , STATION 400-16 , 34-31.0. N, 128-12.2. E, APR. 7.1982, 08:13 KST, DEPTH 43 , COLOR 8, TRANS. 6.0,

WAVE NW 1, SWELL NW 1, WIND NW 2, BARO 1010. , AIR TEMP. DRY 12.0, WET , CLOUD. TYPE NS, AMT 10, WEATHER R ,

0	12.57	34.400	*****							0	12.57	34.400	*****	26.03	198	198	0.0000
10	12.59	34.400	*****							10	12.59	34.400	*****	26.02	199	199	0.0198
20	12.32	34.390	*****							20	12.32	34.390	*****	26.07	194	195	0.0395
30	12.22	34.400	*****							30	12.22	34.400	*****	26.10	192	192	0.0589
40	11.99	34.400	*****														

KOREA ,TAE BAEK SAN , STATION 400-17 , 34-27.0. N, 128-00.5. E, APR. 7.1982, 09:30 KST, DEPTH 34 , COLOR 7, TRANS. 11.0,

WAVE N 1, SWELL N 1, WIND N 2, BARO 1011. , AIR TEMP. DRY 13.1, WET , CLOUD. TYPE CU, AMT 10, WEATHER C ,

0	13.51	34.480	*****							0	13.51	34.480	*****	25.90	210	210	0.0000
10	13.55	34.490	*****							10	13.55	34.490	*****	25.90	210	210	0.0210

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

20 13.00 34.440 *****
30 12.72 34.430 *****

KOREA ,TAE BAEK SAN , STATION 400-22 , 33-44.3. N, 128-23.9. E, APR. 7.1982, 21:00 KST, DEPTH 105 , COLOR , TRANS.
WAVE NW 1, SWELL NW 1, WIND NW 4, BARO 1008. , AIR TEMP. DRY 14.8, WET , CLOUD. TYPE ST, AMT 06, WEATHER BC,
0 15.17 34.580 *****
10 15.18 34.600 *****
20 15.15 34.600 *****
30 15.19 34.570 *****
50 14.19 34.540 *****
75 13.77 34.520 *****
100 13.24 34.460 *****

KOREA ,TAE BAEK SAN , STATION 400-24 , 33-35.6. N, 127-51.9. E, APR.10.1982, 17:20 KST, DEPTH 103 , COLOR 3, TRANS. 17.0,
WAVE NW 1, SWELL NW 1, WIND NW 2, BARO 1021. , AIR TEMP. DRY 14.9, WET , CLOUD. TYPE , AMT , WEATHER B ,
0 15.72 34.620 *****
10 15.56 34.610 *****
20 15.45 34.610 *****
30 15.39 34.610 *****
50 15.35 34.600 *****
75 15.07 34.580 *****
100 13.99 34.600 *****

KOREA ,TAE BAEK SAN , STATION 400-25 , 33-33.6. N, 127-34.0. E, APR.10.1982, 15:30 KST, DEPTH 100 , COLOR 3, TRANS. 15.0,
WAVE NW 1, SWELL NW 1, WIND NW 1, BARO 1022. , AIR TEMP. DRY 12.4, WET , CLOUD. TYPE , AMT , WEATHER B ,
0 15.94 34.630 *****

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA ,TAE BAEK SAN , STATION 400-26 , 33-31.7. N, 127-11.8. E, APR.10.1982, 13:40 KST, DEPTH 100 , COLOR 3, TRANS. 15.0, WAVE NW 1, SWELL NW 1, WIND NW 2, BARO 1023. , AIR TEMP. DRY 12.5, WET , CLOUD. TYPE , AMT , WEATHER B ,																	
10	15.73	34.630	*****							10	15.73	34.630	*****	25.54	245	245	0.0247
20	15.71	34.630	*****							20	15.71	34.630	*****	25.54	244	245	0.0492
30	15.63	34.620	*****							30	15.63	34.620	*****	25.55	243	244	0.0737
50	15.53	34.630	*****							50	15.53	34.630	*****	25.58	241	242	0.1224
75	15.38	34.650	*****							75	15.38	34.650	*****	25.63	236	238	0.1824
95	15.69	34.630	*****														
KOREA ,TAE BAEK SAN , STATION 400-27 , 33-30.3. N, 127-04.5. E, APR.10.1982, 11:53 KST, DEPTH 125 , COLOR 5, TRANS. 11.0, WAVE NW 1, SWELL NW 1, WIND NW 2, BARO 1023. , AIR TEMP. DRY 11.3, WET , CLOUD. TYPE , AMT , WEATHER B ,																	
0	15.69	34.690	*****							0	15.69	34.690	*****	25.59	240	239	0.0000
10	15.48	34.610	*****							10	15.48	34.610	*****	25.58	241	241	0.0240
20	15.42	34.580	*****							20	15.42	34.580	*****	25.57	242	242	0.0482
30	15.37	34.580	*****							30	15.37	34.580	*****	25.58	241	241	0.0724
50	15.17	34.570	*****							50	15.17	34.570	*****	25.62	237	238	0.1205
75	15.13	34.570	*****							75	15.13	34.570	*****	25.63	236	238	0.1802
100	15.08	34.550	*****							100	15.08	34.550	*****	25.62	237	239	0.2401
120	14.80	34.520	*****														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY

6月(June)

KOREA ,TAE BAEK SAN , STATION 400-11 , 33-58.3. N, 128-54.0. E, JUN.14.1982, 23:55 KST, DEPTH 110 , COLOR , TRANS.

WAVE NE 1, SWELL NE 2, WIND NE 2, BARO 1006.4, AIR TEMP. DRY 19.2, WET , CLOUD. TYPE CI, AMT 01, WEATHER B ,

0	19.11	33.990	*****							0	19.11	33.990	*****	24.24	369	368	0.0000
10	19.07	33.980	*****							10	19.07	33.980	*****	24.24	368	368	0.0368
20	18.90	33.960	*****							20	18.90	33.960	*****	24.27	366	366	0.0736
30	18.54	34.090	*****							30	18.54	34.090	*****	25.17	280	281	0.1060
50	18.15	34.270	*****							50	18.15	34.270	*****	25.39	259	260	0.1602
75	14.94	34.290	*****							75	14.94	34.290	*****	25.45	253	255	0.2246
100	14.37	34.400	*****							100	14.37	34.400	*****	25.66	233	236	0.2861

KOREA ,TAE BAEK SAN , STATION 400-12 , 33-51.7. N, 128-39.0. E, JUN.14.1982, 22:00 KST, DEPTH 98 , COLOR , TRANS.

WAVE NE 2, SWELL NE 2, WIND NE 3, BARO 1006.2, AIR TEMP. DRY 19.7, WET , CLOUD. TYPE CI, AMT 01, WEATHER B ,

0	19.74	34.030	*****							0	19.74	34.030	*****	24.11	381	381	0.0000
10	19.80	34.040	*****							10	19.80	34.040	*****	24.10	382	382	0.0381
20	19.72	34.030	*****							20	19.72	34.030	*****	24.11	381	381	0.0763
30	18.71	34.040	*****							30	18.71	34.040	*****	24.38	355	356	0.1152
50	14.86	34.110	*****							50	14.86	34.110	*****	25.33	265	266	0.1755
75	14.82	34.470	*****							75	14.82	34.470	*****	25.62	237	239	0.2387
95	14.71	34.500	*****														

KOREA ,TAE BAEK SAN , STATION 400-13 , 34-04.6. N, 128-30.0. E, JUN.15.1982, 02:20 KST, DEPTH 82 , COLOR , TRANS.

WAVE , SWELL , WIND NE 1, BARO 1006.4, AIR TEMP. DRY 18.6, WET , CLOUD. TYPE , AMT , WEATHER B ,

0	18.85	34.050	*****							0	18.85	34.050	*****	24.35	358	358	0.0000
10	18.81	34.040	*****							10	18.81	34.040	*****	24.35	358	358	0.0358

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

20 17.45 34.030 *****
30 15.04 34.150 *****
50 14.45 34.230 *****
75 14.32 34.360 *****

KOREA ,TAE BAEK SAN , STATION 400-14 , 34-15.5. N, 129-24.0. E, JUN.15.1982, 03:40 KST, DEPTH 80 , COLOR , TRANS. ,
WAVE , SWELL , WIND NE 1, BARO 1006.2, AIR TEMP. DRY 18.3, WET , CLOUD. TYPE CI, AMT O1, WEATHER B ,
0 18.80 34.030 ***** 24.35 358 358 0.0000
10 18.78 34.040 ***** 24.36 357 357 0.0358
20 17.47 34.010 ***** 24.66 329 329 0.0701
30 15.53 34.100 ***** 25.18 279 280 0.1006
50 14.66 34.160 ***** 25.41 257 258 0.1544
75 14.34 34.300 ***** 25.59 240 242 0.2170

KOREA ,TAE BAEK SAN , STATION 400-15 , 34-22.2. N, 129-18.4. E, JUN.15.1982, 05:00 KST, DEPTH 63 , COLOR , TRANS. ,
WAVE NE 1, SWELL NE 1, WIND NE 1, BARO 1007.3, AIR TEMP. DRY 20.2, WET , CLOUD. TYPE CS, AMT O1, WEATHER B ,
0 18.67 33.960 ***** 24.33 360 360 0.0000
10 18.32 33.940 ***** 24.40 353 353 0.0357
20 17.35 33.980 ***** 24.66 328 328 0.0698
30 15.44 34.090 ***** 25.19 278 279 0.1002
50 14.33 34.250 ***** 25.55 243 244 0.1526
60 14.76 34.340 *****

KOREA ,TAE BAEK SAN , STATION 400-16 , 34-31.0. N, 128-12.0. E, JUN.15.1982, 08:10 KST, DEPTH 44 , COLOR 4, TRANS. 11.0,
WAVE , SWELL SW 1, WIND SW 1, BARO 1008. , AIR TEMP. DRY 21.0, WET , CLOUD. TYPE CS, AMT O1, WEATHER B ,
0 19.31 33.980 ***** 24.18 374 374 0.0000

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

10	17.20	34.020	*****							10	17.20	34.020	*****	24.24	369	369	0.0371
20	17.79	34.070	*****							20	17.79	34.070	*****	24.63	332	332	0.0722
30	16.32	34.120	*****							30	16.32	34.120	*****	25.01	295	295	0.1036
40	15.92	34.180	*****														

FOREA , TAE BAEK SAN , STATION 400-17 , 34-27.0. N, 128-00.5. E, JUN.15.1982. 06:50 PST, DEPTH 39 , COLOR 4, TRANS. 13.0,																	
WAVE NW 1, SWELL NW 1, WIND NW 1, BARO 1007.5, AIR TEMP. DRY 21.6, WET , CLOUD. TYPE CS, AMT 02, WEATHER B ,																	
0	18.96	33.950	*****							0	18.96	33.950	*****	24.24	368	368	0.0000
10	18.81	33.940	*****							10	18.81	33.940	*****	24.27	365	365	0.0366
20	16.73	34.060	*****							20	16.73	34.060	*****	24.97	308	309	0.0704
30	15.63	34.110	*****							30	15.63	34.110	*****	25.16	281	281	0.0999

FOREA ,TAF BOFF SAN , STATION 400-22 , 33-44.3. N, 128-23.9. E, JUN.14.1982. 20:00 KST, DEPTH 122 , COLOR , TRANS. ,																	
WAVE NE 3, SWELL NE 2, WIND NE 3, BARO 1004.5, AIR TEMP. DRY 20.1, WET , CLOUD. TYPE CI, AMT 01, WEATHER B ,																	
0	19.85	33.950	*****							0	19.85	33.950	*****	24.02	390	389	0.0000
10	19.69	33.940	*****							10	19.69	33.940	*****	24.05	386	386	0.0388
20	19.70	*****	*****							20	19.70	34.065	*****	24.14	378	378	0.0771
30	18.69	34.190	*****							30	18.69	34.190	*****	24.50	344	345	0.1133
50	16.00	34.220	*****							50	16.00	34.220	*****	25.16	281	282	0.1760
75	15.10	34.280	*****							75	15.10	34.280	*****	25.41	257	259	0.2437
100	14.52	34.290	*****							100	14.52	34.290	*****	25.54	244	247	0.3070

FOREA ,TAE BAEK SAN , STATION 400-24 , 33-35.6. N, 127-51.9. E, JUN.12.1982. 02:40 KST, DEPTH 105 , COLOR , TRANS. ,																	
WAVE , SWELL SW 1, WIND SW 1, BARO 1008.5, AIR TEMP. DRY 22.0, WET , CLOUD. TYPE CS, AMT 03, WEATHER EC,																	
0	21.97	33.720	*****							0	21.97	33.720	*****	23.27	461	461	0.0000
10	21.82	33.700	*****							10	21.82	33.700	*****	23.30	458	458	0.0459
20	20.28	33.850	*****							20	20.28	33.850	*****	23.83	408	408	0.0893

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY

30	18.37	33.910	*****							30	18.37	33.910	*****	24.36	357	357	0.1276
50	17.16	34.120	*****							50	17.16	34.120	*****	24.82	314	315	0.1949
75	16.81	34.250	*****							75	16.81	34.250	*****	25.00	296	298	0.2717
100	16.90	34.400	*****							100	16.90	34.400	*****	25.09	287	290	0.3453

KOREA , TAE BAEK SAN , STATION 400-25 , 33-33.6. N, 127-34.0. E, JUN.12.1992; 04:40 KST, DEPTH 100 , COLOR , TRANS. ,
WAVE SW 1, SWELL SW 2, BARO 1008.7, AIR TEMP. DRY 22.1, WET , CLOUD. TYPE CI, AMT 02, WEATHER B ,
0 22.07 33.790 ***** 0 22.07 33.790 ***** 23.30 458 458 0.0000
10 22.05 33.830 ***** 10 22.05 33.830 ***** 23.33 455 455 0.0457
20 19.81 33.850 ***** 20 19.81 33.850 ***** 23.95 396 396 0.0883
30 19.60 33.860 ***** 30 19.60 33.860 ***** 24.01 390 391 0.1277
50 16.76 34.400 ***** 50 16.76 34.400 ***** 25.12 284 285 0.1954
75 15.82 34.490 ***** 75 15.82 34.490 ***** 25.41 257 259 0.2635
95 14.16 34.540 *****

KOREA , TAE BAEK SAN , STATION 400-26 , 33-31.7. N, 127-41.8. E, JUN.12.1992, 06:40 KST, DEPTH 108 , COLOR 2, TRANS. 17.0,
WAVE NW 1, SWELL NW 2, BARO 1008.2, AIR TEMP. DRY 22.6, WET , CLOUD. TYPE CI, AMT 04, WEATHER BC,
0 21.86 33.780 ***** 0 21.86 33.780 ***** 23.35 454 453 0.0000
10 21.29 33.790 ***** 10 21.29 33.790 ***** 23.51 438 438 0.0446
20 19.76 34.270 ***** 20 19.76 34.270 ***** 24.28 364 365 0.0847
30 16.74 34.300 ***** 30 16.74 34.300 ***** 25.05 291 292 0.1176
50 16.36 34.460 ***** 50 16.36 34.460 ***** 25.26 271 272 0.1741
75 14.87 34.500 ***** 75 14.87 34.500 ***** 25.63 236 238 0.2379
100 13.86 34.480 ***** 100 13.86 34.480 ***** 25.83 217 220 0.2952

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY
KOREA ,TAE BAEK SAN , STATION 400-27 , 33-30.3. N, 127-04.5. E, JUN.12.1982, 08:30 KST, DEPTH 130 , COLOR 3, TRANS. 16.0.																	
WAVE NW 1. SWELL NW 1, WIND WNW 2, BARO 1008.5, AIR TEMP. DRY 22.8, WET , CLOUD. TYPE AS, AMT 08, WEATHER C ,																	
0	22.10	34.940	*****							0	22.10	34.940	*****	24.16	376	376	0.0000
10	21.77	34.060	*****							10	21.77	34.060	*****	23.58	431	431	0.0403
20	19.64	34.070	*****							20	19.64	34.070	*****	24.16	376	376	0.0807
30	16.72	34.100	*****							30	16.72	34.100	*****	24.90	305	306	0.1149
50	14.57	34.130	*****							50	14.57	34.130	*****	25.41	257	258	0.1714
75	14.32	34.230	*****							75	14.32	34.230	*****	25.54	245	246	0.2346
100	13.63	34.310	*****							100	13.63	34.310	*****	25.75	225	227	0.2939
125	13.69	34.330	*****							125	13.69	34.330	*****	25.75	225	228	0.3509

8月(August)

KOREA ,TAE BAEK SAN , STATION 400-11 , 33-58.3. N, 128-54.0. E, AUG. 5.1982, 15:00 KST, DEPTH 110 , COLOR 2, TRANS. 18.0.																	
WAVE S 1, SWELL S 1, WIND S 2, BARO 1001.3, AIR TEMP. DRY 28.8, WET , CLOUD. TYPE CI, AMT 02, WEATHER B ,																	
0	26.40	31.540	*****							0	26.40	31.540	*****	20.32	743	743	0.0000
10	26.08	31.670	*****							10	26.08	31.670	*****	20.52	724	724	0.0734
20	22.42	32.690	*****							20	22.42	32.690	*****	22.37	547	548	0.1370
30	17.99	33.540	*****							30	17.99	33.540	*****	24.17	375	375	0.1832
50	17.42	34.130	*****							50	17.42	34.130	*****	24.76	319	320	0.2528
75	17.11	34.400	*****							75	17.11	34.400	*****	25.04	292	294	0.3277
100	16.10	34.550	*****							100	16.10	34.550	*****	25.39	259	261	0.3992
KOREA ,TAE BAEK SAN , STATION 400-12 , 33-51.7. N, 128-39.0. E, AUG. 5.1982, 16:50 KST, DEPTH 97 , COLOR 3, TRANS. 17.0.																	
WAVE S 2, SWELL S 1, WIND S 2, BARO 1001.1, AIR TEMP. DRY 28.8, WET , CLOUD. TYPE CI, AMT 05, WEATHER BC.																	
0	26.18	31.550	*****							0	26.18	31.550	*****	20.40	736	736	0.0000

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
10	25.17	31.760	*****							10	25.17	31.760	*****	20.87	691	691	0.0713
20	19.82	33.100	*****							20	19.82	33.100	*****	23.38	451	451	0.1285
30	17.13	33.320	*****							30	17.13	33.320	*****	24.21	371	372	0.1697
50	15.97	34.040	*****							50	15.97	34.040	*****	25.03	293	294	0.2364
75	15.11	34.210	*****							75	15.11	34.210	*****	25.35	262	264	0.3063
90	14.89	34.340	*****														
KOREA .TAE BAEK SAN , STATION 400-13 , 34-04.6. N, 128-30.0. E, AUG. 5.1982. 12:20 KST, DEPTH 88 , COLOR 3, TRANS. 14.0,																	
WAVE S 1, SWELL S 1, WIND S 2, BARO 1002.5, AIR TEMP. DRY 27.5, WET , CLOUD. TYPE C1, AMT 01, WEATHER B .																	
0	25.77	32.260	*****							0	25.77	32.260	*****	21.06	673	672	0.0000
10	24.10	32.400	*****							10	24.10	32.400	*****	21.67	614	614	0.0643
20	20.05	33.050	*****							20	20.05	33.050	*****	23.28	460	460	0.1181
30	17.63	33.240	*****							30	17.63	33.240	*****	24.03	388	389	0.1606
50	15.64	33.600	*****							50	15.64	33.600	*****	24.77	318	319	0.2315
75	14.55	33.760	*****							75	14.55	33.760	*****	25.13	284	285	0.3072
85	14.49	33.980	*****														
KOREA .TAE BAEK SAN , STATION 400-14 , 34-13.5. N, 128-24.0. E, AUG. 5.1982. 11:20 KST, DEPTH 80 , COLOR 2, TRANS. 18.0,																	
WAVE S 2, SWELL S 1, WIND S 2, BARO 1002.5, AIR TEMP. DRY 27.1, WET , CLOUD. TYPE C1, AMT 02, WEATHER B .																	
0	25.47	32.400	*****							0	25.47	32.400	*****	21.26	654	653	0.0000
10	24.16	32.380	*****							10	24.16	32.380	*****	21.63	618	618	0.0635
20	22.71	32.630	*****							20	22.71	32.630	*****	22.24	559	560	0.1225
30	19.56	33.140	*****							30	19.56	33.140	*****	23.48	441	442	0.1726
50	15.45	33.600	*****							50	15.45	33.600	*****	24.81	314	315	0.2484
75	13.97	34.180	*****							75	13.97	34.180	*****	25.57	241	243	0.3183

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA ,TAE BAEK SAN , STATION 400-15 , 34-22.2. N, 128-18.4. E, AUG. 5.1982, 10:10 KST, DEPTH 67 , COLOR 3, TRANS. 14.0.
 WAVE S 1, SWELL S 1, WIND S 1, BARG 1002.5, AIR TEMP. DRY 26.9, WET , CLOUD. TYPE CI, AMT 07, WEATHER BC.
 0 24.78 32.520 ***** 0 24.78 32.520 ***** 21.55 625 625 0.0000
 10 23.98 32.640 ***** 10 23.98 32.640 ***** 21.88 594 594 0.0609
 20 20.65 33.340 ***** 20 20.65 33.340 ***** 23.34 454 454 0.1134
 30 16.38 ***** 30 16.38 33.516 ***** 24.54 340 341 0.1532
 50 14.12 33.870 ***** 50 14.12 33.870 ***** 25.30 267 268 0.2142
 63 13.84 34.160 *****

KOREA ,TAE BAEK SAN , STATION 400-16 , 34-31.0. N, 128-12.2. E, AUG. 5.1982, 07:15 KST, DEPTH 43 , COLOR 3, TRANS. 14.0.
 WAVE SE 1, SWELL SE 1, WIND SE 1, BARG 1003. , AIR TEMP. DRY 26.6, WET , CLOUD. TYPE CI, AMT 07, WEATHER BC.
 0 24.86 32.630 ***** 0 24.86 32.630 ***** 21.61 619 619 0.0000
 10 24.65 32.670 ***** 10 24.65 32.620 ***** 21.67 614 614 0.0617
 20 22.87 32.980 ***** 20 22.87 32.980 ***** 22.46 539 539 0.1194
 30 20.10 33.510 ***** 30 20.10 33.510 ***** 23.62 428 428 0.1678
 40 15.51 33.930 *****

KOREA ,TAE BAEK SAN , STATION 400-17 , 34-27.0. N, 128-00.5. E, AUG. 5.1982, 08:30 KST, DEPTH 40 , COLOR 3, TRANS. 13.0.
 WAVE SE 1, SWELL SE 1, WIND SE 2, BARG 1002.6, AIR TEMP. DRY 27.0, WET , CLOUD. TYPE CI, AMT 09, WEATHER C ,
 0 24.66 32.570 ***** 0 24.66 32.570 ***** 21.63 618 618 0.0000
 10 23.75 32.700 ***** 10 23.75 32.700 ***** 21.99 583 583 0.0600
 20 22.07 32.960 ***** 20 22.07 32.960 ***** 22.67 518 519 0.1152
 30 19.35 33.550 ***** 30 19.35 33.550 ***** 23.84 406 407 0.1615
 35 18.24 33.680 *****

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA ,TAE BAEK SAN , STATION 400-22 , 33-44.3. N, 128-23.9. E, AUG. 9.1982, 18:50 KST, DEPTH 105 , COLOR 3, TRANS. 17.0,

WAVE SW 2, SWELL SW 1, WIND SW 2, BARO 1000.9, AIR TEMP. DRY 28.5, WET , CLOUD. TYPE CI, AMT 04, WEATHER BC,

0	25.00	31.320	*****							0	25.00	31.320	*****	20.59	718	718	0.0000
10	24.66	31.300	*****							10	24.66	31.300	*****	20.67	710	710	0.0714
20	20.25	32.830	*****							20	20.25	32.830	*****	23.06	481	481	0.1310
30	17.78	33.240	*****							30	17.78	33.240	*****	23.99	392	392	0.1747
50	14.44	33.420	*****							50	14.44	33.420	*****	24.89	306	307	0.2448
75	14.17	33.720	*****							75	14.17	33.720	*****	25.18	279	281	0.3184
100	12.00	34.150	*****							100	12.00	34.150	*****	25.94	206	208	0.3797

KOREA ,TAE BAEK SAN , STATION 400-24 , 33-35.6. N, 127-51.9. E, AUG. 9.1982, 17:45 KST, DEPTH 102 , COLOR 3, TRANS. 16.0,

WAVE S 1, SWELL S 1, WIND S 2, BARO 1006.4, AIR TEMP. DRY 28.2, WET , CLOUD. TYPE AS, AMT 07, WEATHER BC,

0	28.70	31.450	*****							0	28.70	31.450	*****	19.52	820	820	0.0000
10	28.57	31.520	*****							10	28.57	31.520	*****	19.61	811	811	0.0816
20	24.56	32.240	*****							20	24.56	32.240	*****	21.41	639	639	0.1541
30	21.06	33.830	*****							30	21.06	33.830	*****	23.60	429	430	0.2076
50	17.68	33.880	*****							50	17.68	33.880	*****	24.51	343	344	0.2851
75	17.53	34.170	*****							75	17.53	34.170	*****	24.77	318	320	0.3683
100	17.28	34.290	*****							100	17.28	34.290	*****	24.92	304	307	0.4468

KOREA ,TAE BAEK SAN , STATION 400-25 , 33-33.6. N, 127-34.0. E, AUG. 9.1982, 15:55 KST, DEPTH 90 , COLOR 3, TRANS. 17.0,

WAVE SE 2, SWELL SE 2, WIND SE 3, BARO 1006. , AIR TEMP. DRY 29.0, WET , CLOUD. TYPE CI, AMT 07, WEATHER BC,

0	28.34	31.330	*****							0	28.34	31.330	*****	19.55	818	817	0.0000
10	24.35	32.200	*****							10	24.35	32.200	*****	21.44	636	636	0.0727
20	18.92	33.200	*****							20	18.92	33.200	*****	23.68	421	422	0.1256

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

30	17.08	33.590	*****							30	17.08	33.590	*****	24.43	350	351	0.1643
50	16.56	33.920	*****							50	16.56	33.920	*****	24.80	315	316	0.2311
75	16.53	34.050	*****							75	16.53	34.050	*****	24.91	305	306	0.3090

KOREA ,TAE BAEK SAN , STATION 400-26 , 33-31.7. N, 127-11.8. E, AUG. 7.1982, 14:10 KST, DEPTH 115 , COLOR 3, TRANS. 18.0,
 WAVE SE 2, SWELL SE 2, WIND SE 3, BARO 1006. , AIR TEMP. DRY 28.9, WET , CLOUD. TYPE CU, AMT 03, WEATHER BC,

0	28.53	31.330	*****							0	28.53	31.330	*****	19.49	824	823	0.0000
10	26.86	32.000	*****							10	26.86	32.000	*****	20.52	724	724	0.0774
20	19.93	33.760	*****							20	19.93	33.760	*****	23.85	405	406	0.1339
30	18.10	33.960	*****							30	18.10	33.960	*****	24.47	347	347	0.1716
50	16.66	33.940	*****							50	16.66	33.940	*****	24.80	315	317	0.2381
75	15.77	33.940	*****							75	15.77	33.940	*****	25.00	296	298	0.3150
100	13.91	34.060	*****							100	13.91	34.060	*****	25.49	249	251	0.3838

KOREA ,TAE BAEK SAN , STATION 400-27 , 33-30.3. N, 127-04.5. E, AUG. 9.1982, 12:20 KST, DEPTH 92 , COLOR 4, TRANS. 11.0,

0	26.37	31.540	*****							0	26.37	31.540	*****	20.33	742	742	0.0000
10	24.44	31.640	*****							10	24.44	31.640	*****	20.99	679	679	0.0710
20	22.79	32.440	*****							20	22.79	32.440	*****	22.07	575	576	0.1338
30	18.38	33.540	*****							30	18.38	33.540	*****	24.08	384	385	0.1819
50	17.10	33.960	*****							50	17.10	33.960	*****	24.71	324	325	0.2529
75	16.76	34.120	*****							75	16.76	34.120	*****	24.91	305	306	0.3320
88	15.37	34.130	*****														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY

10月(October)

KOREA ,TAE BAEK SAN , STATION 400-11 , 33-58.3. N, 128-54.0. E, OCT. 7.1982, 16:00 KST, DEPTH 125 , COLOR 3, TRANS. 14.0,
 WAVE NW 1, SWELL NW 1, WIND NW 1, BARO 1012. , AIR TEMP. DRY 24.4, WET , CLOUD. TYPE , AMT 00, WEATHER B ,
 0 23.88 33.520 5.41 0 23.88 33.520 5.41 22.57 527 527 0.0000
 10 23.72 33.540 5.18 10 23.72 33.540 5.18 22.64 521 521 0.0524
 20 23.80 33.660 5.09 20 23.80 33.660 5.09 22.70 515 515 0.1043
 30 23.79 33.700 4.98 30 23.79 33.700 4.98 22.74 512 512 0.1558
 50 19.87 33.710 4.79 50 19.87 33.710 4.79 23.83 408 408 0.2480
 75 17.64 33.930 4.39 75 17.64 33.930 4.39 24.56 338 340 0.3418
 100 13.90 34.200 4.09 100 13.90 34.200 4.09 25.60 239 241 0.4145

KOREA ,TAE BAEK SAN , STATION 400-12 , 33-51.7. N, 128-39.0. E, OCT. 7.1982, 17:45 KST, DEPTH 102 , COLOR 3, TRANS. 14.0,
 WAVE NE 1, SWELL NE 1, WIND NW 1, BARO 1005. , AIR TEMP. DRY 22.4, WET , CLOUD. TYPE , AMT 00, WEATHER B ,
 0 24.13 33.370 5.25 0 24.13 33.370 5.25 22.39 545 545 0.0000
 10 24.06 33.460 5.03 10 24.06 33.460 5.03 22.48 537 537 0.0541
 20 24.01 33.550 4.93 20 24.01 33.550 4.93 22.56 529 529 0.1074
 30 24.06 33.840 4.88 30 24.06 33.840 4.88 22.76 509 510 0.1594
 50 23.80 33.850 4.77 50 23.80 33.850 4.77 22.85 501 503 0.2608
 75 20.46 34.010 4.38 75 20.46 34.010 4.38 23.90 401 403 0.3741
 100 17.10 34.340 4.05 100 17.10 34.340 4.05 25.00 296 299 0.4619

KOREA ,TAE BAEK SAN , STATION 400-13 , 34-04.6. N, 128-30.0. E, OCT. 7.1982, 13:50 KST, DEPTH 94 , COLOR 4, TRANS. 11.0,
 WAVE NE 1, SWELL NE 1, WIND NE 1, BARO 1012.2, AIR TEMP. DRY 24.4, WET , CLOUD. TYPE , AMT 00, WEATHER B ,
 0 22.42 32.630 5.25 0 22.42 32.630 5.25 22.32 552 551 0.0000
 10 22.54 32.750 5.09 10 22.54 32.750 5.09 22.38 546 546 0.0549

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
KOREA .TAE BAEK SAN , STATION 400-14 , 34-13.5. N, 128-24.0. E, OCT. 7.1982, 12:25 KST, DEPTH 85 , COLOR 4, TRANS. 12.0,																	
WAVE W 1, SWELL W 1, WIND W 1, BARO 1012. , AIR TEMP. DRY 25.1, WET , CLOUD. TYPE , AMT 00, WEATHER B ,																	
20	22.60	32.780	4.93							20	22.60	32.780	4.93	22.38	546	546	0.1095
30	21.24	33.120	4.93							30	21.24	33.120	4.93	23.02	485	486	0.1612
50	18.81	33.280	4.66							50	18.81	33.280	4.66	23.77	413	414	0.2513
75	13.60	33.770	4.39							75	13.60	33.770	4.39	25.33	264	266	0.3364
90	13.56	33.800	4.09														
KOREA .TAE BAEK SAN , STATION 400-15 , 34-22.2. N, 128-18.4. E, OCT. 7.1982, 11:15 KST, DEPTH 65 , COLOR 4, TRANS. 11.0,																	
WAVE NW 1, SWELL NW 1, WIND NW 1, BARO 1011.3, AIR TEMP. DRY 24.1, WET , CLOUD. TYPE , AMT 00, WEATHER B ,																	
0	22.41	32.630	5.36							0	22.41	32.630	5.36	22.32	551	551	0.0000
10	22.46	32.710	5.16							10	22.46	32.710	5.16	22.37	547	547	0.0549
20	22.80	32.920	5.08							20	22.80	32.920	5.08	22.43	541	541	0.1094
30	23.34	33.210	4.94							30	23.34	33.210	4.94	22.50	535	535	0.1633
50	13.23	33.510	4.90							50	13.23	33.510	4.90	25.21	276	277	0.2446
KOREA .TAE BAEK SAN , STATION 400-16 , 34-31.0. N, 128-12.2. E, OCT. 7.1982, 08:20 KST, DEPTH 43 , COLOR 4, TRANS. 12.0,																	
WAVE NE 1, SWELL NE 1, WIND NE 1, BARO 1011.1, AIR TEMP. DRY 21.3, WET , CLOUD. TYPE , AMT 00, WEATHER B ,																	
0	21.69	32.370	5.25							0	21.69	32.370	5.25	22.33	551	551	0.0000

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY
10	21.71	32.330	5.14							10	21.71	32.330	5.14	22.29	555	555	0.0553
20	21.70	32.340	5.04							20	21.70	32.340	5.04	22.30	554	554	0.1107
30	21.75	32.370	4.75							30	21.75	32.370	4.75	22.31	553	553	0.1662
KOREA ,TAE BAEK SAN , STATION 400-17 , 34-27.0. N, 128-00.5. E, OCT. 7.1982, 09:35 KST, DEPTH 38 , COLOR 4, TRANS. 11.0,																	
WAVE NE 1, SWELL NE 1, WIND NE 1, BARO 1011.4, AIR TEMP. DRY 23.0, WET , CLOUD. TYPE , AMT 00, WEATHER B ,																	
0	21.65	32.220	5.25							0	21.65	32.220	5.25	22.22	561	561	0.0000
10	21.65	32.210	5.25							10	21.65	32.210	5.25	22.22	562	562	0.0561
20	21.61	32.240	5.05							20	21.61	32.240	5.05	22.25	558	559	0.1122
30	21.39	32.300	4.85							30	21.39	32.300	4.85	22.35	548	549	0.1676
KOREA ,TAE BAEK SAN , STATION 400-22 , 33-44.3. N, 128-23.9. E, OCT. 7.1982, 19:30 KST, DEPTH 107 , COLOR , TRANS. ,																	
WAVE NE 1, SWELL NE 1, WIND NE 1, BARO 1009.2, AIR TEMP. DRY 22.3, WET , CLOUD. TYPE , AMT 00, WEATHER B ,																	
0	23.77	33.660	5.32							0	23.77	33.660	5.32	22.71	514	514	0.0000
10	23.76	33.650	5.13							10	23.76	33.650	5.13	22.71	515	515	0.0514
20	23.74	33.680	4.98							20	23.74	33.680	4.98	22.74	512	512	0.1028
30	23.71	33.670	4.93							30	23.71	33.670	4.93	22.74	512	512	0.1541
50	23.65	33.690	4.73							50	23.65	33.690	4.73	22.77	509	510	0.2565
75	21.34	34.170	4.39							75	21.34	34.170	4.39	23.79	412	414	0.3721
100	17.43	34.240	4.01							100	17.43	34.240	4.01	24.84	311	314	0.4631
KOREA ,TAE BAEK SAN , STATION 400-24 , 33-35.6. N, 127-51.9. E, OCT. 8.1982, 16:30 KST, DEPTH 100 , COLOR 3, TRANS. 12.0,																	
WAVE NE 2, SWELL NE 2, WIND NE 3, BARO 1009.1, AIR TEMP. DRY 23.0, WET , CLOUD. TYPE , AMT 00, WEATHER B ,																	
0	25.14	33.560	5.07							0	25.14	33.560	5.07	22.23	560	560	0.0000
10	25.17	33.590	4.81							10	25.17	33.590	4.81	22.24	559	559	0.0560
20	25.14	33.650	4.75							20	25.14	33.650	4.75	22.30	554	554	0.1117

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY

30	25.26	33.660	4.60							30	25.26	33.660	4.60	22.27	557	557	0.1673
50	25.27	33.670	4.55							50	25.27	33.670	4.55	22.27	556	558	0.2789
75	20.29	34.030	4.26							75	20.29	34.030	4.26	23.96	395	397	0.3984
95	15.23	34.180	4.04														

KOREA ,TAE BAEK SAN , STATION 400-25 , 33-33.6. N, 127-34.0. E, OCT. 8.1982, 14:45 KST, DEPTH 100 , COLOR 4, TRANS. 11.0,

WAVE NE 3, SWELL NE 2, WIND NE 3, BARO 1008. , AIR TEMP. DRY 23.9, WET , CLOUD. TYPE , AMT 00, WEATHER B ,

0	25.21	33.310	5.05							0	25.21	33.310	5.05	22.02	580	580	0.0000
10	25.19	33.470	4.86							10	25.19	33.470	4.86	22.15	568	568	0.0574
20	25.21	33.660	4.86							20	25.21	33.660	4.86	22.28	555	556	0.1137
30	25.07	33.660	4.74							30	25.07	33.660	4.74	22.33	551	552	0.1691
50	25.10	33.660	4.53							50	25.10	33.660	4.53	22.32	552	553	0.2797
75	20.23	34.180	4.31							75	20.23	34.180	4.31	24.09	383	385	0.3971
90	18.40	34.200	4.05														

KOREA ,TAE BAEK SAN , STATION 400-26 , 33-31.7. N, 127-11.8. E, OCT. 8.1982, 13:00 KST, DEPTH 112 , COLOR 4, TRANS. 12.0,

WAVE NW 3, SWELL N 2, WIND N 3, BARO 1008.3, AIR TEMP. DRY 23.6, WET , CLOUD. TYPE , AMT 00, WEATHER B ,

0	24.20	33.260	5.30							0	24.20	33.260	5.30	22.28	555	555	0.0000
10	24.14	33.260	4.81							10	24.14	33.260	4.81	22.30	553	553	0.0554
20	24.14	33.740	4.67							20	24.14	33.740	4.67	22.66	519	519	0.1091
30	23.78	33.800	4.54							30	23.78	33.800	4.54	22.82	504	505	0.1604
50	19.22	33.820	4.34							50	19.22	33.820	4.34	24.08	384	385	0.2495
75	15.43	33.990	4.26							75	15.43	33.990	4.26	25.11	285	287	0.3336
100	14.61	34.130	4.11							100	14.61	34.130	4.11	25.40	258	260	0.4021
110	14.43	34.150	4.07														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY

KOREA , TAE BAEK SAN , STATION 400-27 , 33-30.3. N, 127-04.5. E, OCT. 8.1982, 11:20 KST, DEPTH 125 , COLOR 4, TRANS. 12.0,
 WAVE NW 1, SWELL NW 1, WIND N 3, BARO 1009.4, AIR TEMP. DRY 22.5, WET , CLOUD. TYPE , AMT 00, WEATHER B ,
 0 23.10 33.310 5.18 0 23.10 33.310 5.18 22.64 521 521 0.0000
 10 23.04 33.360 4.87 10 23.04 33.360 4.87 22.70 516 516 0.0518
 20 21.54 33.390 4.61 20 21.54 33.390 4.61 23.14 473 474 0.1013
 30 19.92 33.560 4.50 30 19.92 33.560 4.50 23.70 420 420 0.1461
 50 18.15 33.820 4.29 50 18.15 33.820 4.29 24.35 358 359 0.2242
 75 17.87 33.860 4.25 75 17.87 33.860 4.25 24.45 349 351 0.3130
 100 16.57 33.850 4.21 100 16.57 33.850 4.21 24.75 320 323 0.3973
 120 16.25 33.900 4.05

12月(December)

KOREA , TAE BAEK SAN , STATION 400-11 , 33-58.3. N, 128-54.0. E, DEC.13.1982, 17:15 KST, DEPTH 110 , COLOR , TRANS. ,
 WAVE NW 3, SWELL NW 2, WIND NW 3, BARO 1026.3, AIR TEMP. DRY 6.0, WET , CLOUD. TYPE 01, AMT 03, WEATHER BC,
 0 17.50 34.471 5.11 0 17.50 34.471 5.11 25.00 296 295 0.0000
 10 18.33 34.492 5.04 10 18.33 34.492 5.04 24.82 314 314 0.0304
 20 18.43 34.475 5.02 20 18.43 34.475 5.02 24.78 317 317 0.0620
 30 18.55 34.464 4.97 30 18.55 34.464 4.97 24.74 321 321 0.0940
 50 18.52 34.477 4.98 50 18.52 34.477 4.98 24.76 319 320 0.1583
 75 18.60 34.452 4.93 75 18.60 34.452 4.93 24.72 323 325 0.2391
 100 18.38 34.433 4.70 100 18.38 34.433 4.70 24.76 319 322 0.3200
 105 18.18 34.426 4.67

KOREA , TAE BAEK SAN , STATION 400-12 , 33-51.7. N, 128-39.0. E, DEC.13.1982, 18:50 KST, DEPTH 100 , COLOR , TRANS. ,
 WAVE NW 3, SWELL NW 3, WIND NW 4, BARO 1025.5, AIR TEMP. DRY 5.8, WET , CLOUD. TYPE AS, AMT 10, WEATHER C ,
 0 18.27 34.443 5.02 0 18.27 34.443 5.02 24.79 316 315 0.0000

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

10	18.35	34.435	4.93							10	18.35	34.435	4.93	24.77	318	318	0.0317
20	18.29	34.436	4.92							20	18.29	34.436	4.92	24.78	317	317	0.0635
30	18.27	34.440	4.92							30	18.27	34.440	4.92	24.79	316	317	0.0952
50	17.85	34.374	4.94							50	17.85	34.374	4.94	24.84	311	312	0.1582
75	17.65	34.325	4.85							75	17.65	34.325	4.85	24.86	310	312	0.2363
95	17.52	34.327	4.64														

KOREA ,TAE BAEK SAN , STATION 400-13 , 34-04.6. N, 128-30.0. E, DEC.13.1982, 15:05 KST, DEPTH 95 , COLOR 5, TRANS. 8.0,
 WAVE NW 2, SWELL NW 2, WIND NW 3, BARO 1026.3, AIR TEMP. DRY 5.8, WET , CLOUD. TYPE CU, AMT 03, WEATHER BC,

0	18.04	34.437	5.12							0	18.04	34.437	5.12	24.85	311	310	0.0000
10	18.04	34.395	4.97							10	18.04	34.395	4.97	24.81	314	314	0.0312
20	18.10	34.403	4.95							20	18.10	34.403	4.95	24.80	315	315	0.0627
30	18.18	34.397	4.80							30	18.18	34.397	4.80	24.78	317	318	0.0944
50	18.20	34.370	4.60							50	18.20	34.370	4.60	24.76	319	321	0.1583
75	17.73	34.367	4.45							75	17.73	34.367	4.45	24.87	309	311	0.2373
90	17.06	34.322	4.35														

KOREA ,TAE BAEK SAN , STATION 400-14 , 34-13.5. N, 128-24.0. E, DEC.13.1982, 13:50 KST, DEPTH 85 , COLOR 6, TRANS. 5.5,
 WAVE , SWELL NW 3, WIND NW 3, BARO 1026.5, AIR TEMP. DRY 4.8, WET , CLOUD. TYPE CU, AMT 02, WEATHER B ,

0	17.18	34.307	5.14							0	17.18	34.307	5.14	24.95	300	300	0.0000
10	17.14	34.300	5.17							10	17.14	34.300	5.17	24.96	300	300	0.0300
20	17.08	34.287	5.05							20	17.08	34.287	5.05	24.96	300	300	0.0600
30	16.55	34.276	4.93							30	16.55	34.276	4.93	25.08	289	289	0.0895
50	16.47	34.288	4.65							50	16.47	34.288	4.65	25.11	286	287	0.1472
75	16.46	34.245	4.46							75	16.46	34.245	4.46	25.08	289	291	0.2196

OBSERVED										INTERPOLATED					CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY	
KOREA ,TAE BAEK SAN , STATION 400-15 , 34-22.2. N, 128-18.4. E, DEC.13.1982, 12:40 KST, DEPTH 64 , COLOR 5, TRANS. 5.0, WAVE , SWELL W 2, WIND W 3, BARO 1026. , AIR TEMP. DRY 5.0, WET , CLOUD. TYPE CU, AMT 02, WEATHER B ,																		
0	15.65	34.026	5.16							0	15.65	34.026	5.16	25.09	287	287	0.0000	
10	15.62	34.028	5.17							10	15.62	34.028	5.17	25.10	286	286	0.0287	
20	15.45	34.023	5.09							20	15.45	34.023	5.09	25.13	283	283	0.0572	
30	15.35	33.999	4.97							30	15.35	33.999	4.97	25.14	283	283	0.0856	
50	15.27	33.953	4.69							50	15.27	33.953	4.69	25.12	285	286	0.1426	
KOREA ,TAE BAEK SAN , STATION 400-16 , 34-31.0. N, 128-12.2. E, DEC.13.1982, 10:00 KST, DEPTH 40 , COLOR 5, TRANS. 5.0, WAVE NW 1, SWELL NW 1, WIND NW 2, BARO 1028. , AIR TEMP. DRY 3.3, WET , CLOUD. TYPE CI, AMT 01, WEATHER B ,																		
0	13.46	33.690	5.31							0	13.46	33.690	5.31	25.30	267	267	0.0000	
10	13.45	33.679	5.14							10	13.45	33.679	5.14	25.29	268	268	0.0267	
20	13.54	33.653	5.12							20	13.54	33.653	5.12	25.26	272	272	0.0538	
35	13.50	33.657	5.02							30	13.51	33.655	5.05	25.26	271	271	0.0810	
KOREA ,TAE BAEK SAN , STATION 400-17 , 34-27.0. N, 128-00.5. E, DEC.13.1982, 11:00 KST, DEPTH 37 , COLOR 5, TRANS. 5.5, WAVE NW 2, SWELL NW 2, WIND NW 3, BARO 1028. , AIR TEMP. DRY 4.4, WET , CLOUD. TYPE CU, AMT 01, WEATHER B ,																		
0	12.59	33.380	5.37							0	12.59	33.380	5.37	25.23	274	273	0.0000	
10	12.66	33.377	5.31							10	12.66	33.377	5.31	25.22	275	275	0.0274	
20	12.67	33.378	5.22							20	12.67	33.378	5.22	25.22	275	275	0.0550	
30	12.78	33.443	5.14							30	12.78	33.443	5.14	25.25	273	273	0.0825	
KOREA ,TAE BAEK SAN , STATION 400-22 , 33-44.3. N, 128-23.9. E, DEC.13.1982, 20:40 KST, DEPTH 105 , COLOR , TRANS. , WAVE NW 3, SWELL NW 2, WIND NW 3, BARO 1028. , AIR TEMP. DRY 5.8, WET , CLOUD. TYPE AS, AMT 10, WEATHER C ,																		
0	18.32	34.426	4.89							0	18.32	34.426	4.89	24.77	318	318	0.0000	
10	18.29	34.430	4.84							10	18.29	34.430	4.84	24.78	317	317	0.0317	

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	02	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	02	SIGMA-T	D-T	SVA	D-DY

20	18.34	34.438	4.85							20	18.34	34.438	4.85	24.77	318	318	0.0635
30	18.38	34.436	4.80							30	18.38	34.436	4.80	24.76	319	319	0.0255
50	18.11	34.386	4.70							50	18.11	34.386	4.70	24.79	316	317	0.1592
75	17.88	34.375	4.63							75	17.88	34.375	4.63	24.84	311	313	0.2382
100	17.76	34.321	4.62							100	17.76	34.321	4.62	24.83	313	315	0.3169

KOREA ,TAE BAEK SAN , STATION 400-24 , 33-35.6. N, 127-51.9. E, DEC.15.1982, 19:15 KST, DEPTH 109 , COLOR , TRANS. ,

WAVE NW 1, SWELL NW 1, WIND NW 2, BARO 1028. , AIR TEMP. DRY 9.4, WET , CLOUD. TYPE AS, AMT 06, WEATHER BC, .

0	19.01	34.399	4.88							0	19.01	34.399	4.88	24.57	337	336	0.0000
10	18.98	34.402	4.95							10	18.98	34.402	4.95	24.58	336	336	0.0336
20	19.01	34.417	4.91							20	19.01	34.417	4.91	24.59	335	336	0.0672
30	19.00	34.408	4.93							30	19.00	34.408	4.93	24.58	336	336	0.1008
50	19.04	34.395	4.84							50	19.04	34.395	4.84	24.56	338	339	0.1685
75	18.96	34.413	4.78							75	18.96	34.413	4.78	24.60	334	336	0.2530
105	18.65	34.487	4.75							100	18.70	34.474	4.75	24.71	324	326	0.3359

KOREA ,TAE BAEK SAN , STATION 400-25 , 33-33.6. N, 127-34.0. E, DEC.15.1982, 17:35 KST, DEPTH 100 , COLOR , TRANS. .

WAVE NW 1, SWELL NW 1, WIND NW 2, BARO 1027.8, AIR TEMP. DRY 8.6, WET , CLOUD. TYPE AS, AMT 08, WEATHER C ,

0	19.07	34.408	4.98							0	19.07	34.408	4.98	24.57	337	337	0.0000
10	19.08	34.414	4.95							10	19.08	34.414	4.95	24.57	337	337	0.0337
20	19.09	34.415	4.95							20	19.09	34.415	4.95	24.57	337	338	0.0675
30	19.11	34.417	4.89							30	19.11	34.417	4.89	24.56	338	338	0.1013
50	19.15	34.429	4.85							50	19.15	34.429	4.85	24.56	338	339	0.1692
75	19.06	34.427	4.83							75	19.06	34.427	4.83	24.58	336	338	0.2539
95	19.02	34.428	4.79														

OBSERVED										INTERPOLATED				CALCULATED			
DEPTH	TEMP	SAL	O2	P	TOTAL-P	NO2-N	NO3-N	SI	PH	DEPTH	TEMP	SAL	O2	SIGMA-T	D-T	SVA	D-DY

KOREA ,TAE BAEK SAN , STATION 400-26 , 33-31.7. N, 127-11.8. E, DEC.15.1982, 15:40 KST, DEPTH 110 , COLOR 4, TRANS. 13.0,
 WAVE NW 1. SWELL NW 1, WIND NW 2, BARO 1027.6, AIR TEMP. DRY 8.4, WET , CLOUD. TYPE AS, AMT 07, WEATHER BC,
 0 18.72 34.418 4.98 0 18.72 34.418 4.98 24.66 328 328 0.0000
 10 18.87 34.433 4.91 10 18.87 34.433 4.91 24.64 331 331 0.0329
 20 18.88 34.457 4.88 20 18.88 34.457 4.88 24.65 329 330 0.0660
 30 18.92 34.458 4.83 30 18.92 34.458 4.83 24.64 330 331 0.0991
 50 18.90 34.435 4.70 50 18.90 34.435 4.70 24.63 331 333 0.1655
 75 18.95 34.426 4.52 75 18.95 34.426 4.52 24.61 333 335 0.2491
 100 18.88 34.416 4.50 100 18.88 34.416 4.50 24.62 332 335 0.3330
 105 18.93 34.420 4.52

KOREA ,TAE BAEK SAN , STATION 400-27 , 33-30.3. N, 127-04.5. E, DEC.15.1982, 14:00 KST, DEPTH 120 , COLOR 4, TRANS. 12.0,
 WAVE NW 1, SWELL NW 1, WIND NW 2, BARO 1027. , AIR TEMP. DRY 8.2, WET , CLOUD. TYPE CI, AMT 03, WEATHER BC,
 0 18.75 34.410 5.02 0 18.75 34.410 5.02 24.65 329 329 0.0000
 10 18.98 34.426 5.02 10 18.98 34.426 5.02 24.60 334 334 0.0332
 20 19.02 34.420 5.02 20 19.02 34.420 5.02 24.59 335 336 0.0667
 30 19.03 34.418 4.99 30 19.03 34.418 4.99 24.58 336 336 0.1003
 50 19.07 34.420 4.85 50 19.07 34.420 4.85 24.57 336 338 0.1678
 75 19.00 34.415 4.75 75 19.00 34.415 4.75 24.59 335 337 0.2523
 100 18.54 34.442 4.60 100 18.54 34.442 4.60 24.73 322 325 0.3352
 115 18.33 34.434 4.55

第四編

浮游生物調查成績

PART 4

PLANKTON DATA

1982

東海浮游生物調查成績

PLANKTON DATA: EASTERN WATERS

1 9 8 2

107 線 浮游生物 調査表

Plankton Data, Line 107

Month	Feb.				Apr.			
Station	01	03	05	07	01	03	05	07
Date	15	15	15	15	7	7	7	7
Time	08:17	11:09	16:05	21:49	08:30	12:06	17:13	23:00
Col. depth(m)	50	100	100	100	50	100	100	100
Pre. Volume(cc)	0.2	0.1	5.1	13	3.0	1.9	8.9	7.0
Biomass(mg/ml)	2.39	0.31	5.03	11.63	42.77	11.95	100.6	35.85
Copepoda	552	42	1552	1472	1632	912	1680	1056
Amphipoda	8	3	32	18	64	25	116	12
Chaetognatha	0	1	83	62	2	0	0	0
Euphausia Adult	0	0	0	0	0	0	0	0
Larva	0	0	1	16	1	0	4	1

Month	Jun.				Aug.			
Station	01	03	05	07	01	03	05	07
Date	5	5	5	5	8	8	10	10
Time	06:50	09:10	14:20	20:00	12:05	14:30	13:00	18:30
Col. depth(m)	50	100	100	100	50	100	100	100
Pre. Volume(cc)	1.5	0.3	1.2	3.8	0.4	4.0	1.2	4.2
Biomass(mg/ml)	19.50	32.70	18.87	37.74	5.03	50.31	18.87	62.89
Copepoda	1224	176	456	2081	32	2564	820	1521
Amphipoda	3	3	2	8	0	145	23	77
Chaetognatha	5	0	11	16	40	188	242	458
Euphausia Adult	0	0	1	0	0	3	0	0
Larva	8	2	4	52	0	47	1	45

Month	Oct.				Dec.			
Station	01	03	05	07	01	03	05	07
Date	6	6	6	6	15	16	16	16
Time	18:20	11:20	16:10	21:40	10:20	11:45	16:20	21:25
Col. depth(m)	50	100	100	100	50	100	100	100
Pre. Volume(cc)	0.8	1.5	3.0	4.8	2.0	0.5	0.4	2.8
Biomass(mg/ml)	9.43	15.72	22.01	50.31	22.0	9.43	6.29	31.45
Copepoda	392	1136	2528	2440	2680	496	376	480
Amphipoda	4	11	89	28	57	2	6	38
Chaetognatha	25	84	208	176	153	145	7	212
Euphausia Adult	3	3	1	5	3	2	0	3
Larva	2	1	0	5	2	1	5	5

106 線 浮游生物 調査表

Plankton Data, Line 106

Month	Feb.					Apr.				
Station	03	05	07	09	11	03	05	07	09	11
Date	16	16	16	16	16	11	11	11	8	-
Time	03:30	23:50	17:58	12:20	06:45	00:40	20:30	14:50	13:40	-
Col. depth(m)	100	100	100	100	100	100	100	100	100	-
Pre. Volume(cc)	4.0	0.7	1.0	4.0	9.3	13.2	2.9	1.2	5.1	-
Biomass(mg/ $\bar{m}$)	6.60	0.56	0.63	4.40	8.93	160.37	36.48	19.50	18.87	-
Copepoda	124	792	175	944	1144	1120	451	960	192	-
Amphipoda	237	3	4	8	42	105	27	1	24	-
Chaetognatha	3	11	5	32	17	2	0	0	1	-
Euphausia Adult	0	0	0	0	0	9	0	0	0	-
Larva	31	2	1	1	18	34	0	1	6	-

Month	Jun.					Aug.				
Station	03	05	07	09	11	03	05	07	09	11
Date	7	6	6	6	6	12	11	11	11	11
Time	02:30	22:10	16:40	10:45	04:55	01:50	21:15	15:30	09:35	03:40
Col. depth(m)	100	100	100	100	100	100	100	100	100	100
Pre. Volume(cc)	8.0	1.1	1.8	7.3	3.0	13.5	8.9	1.8	4.0	3.3
Biomass(mg/ $\bar{m}$)	108.18	25.79	33.33	94.34	69.18	176.10	106.92	12.58	50.31	31.45
Copepoda	2621	1080	2416	1088	1515	4892	3578	362	780	945
Amphipoda	35	1	8	44	64	163	36	5	4	38
Chaetognatha	35	8	5	16	80	803	608	288	321	104
Euphausia Adult	3	0	0	12	0	7	22	0	0	2
Larva	28	3	5	19	24	31	57	6	3	7

Month	Oct.					Dec.				
Station	03	05	07	09	11	03	05	07	09	11
Date	8	7	7	7	7	20	20	19	19	19
Time	02:00	22:25	17:10	12:00	06:30	04:10	01:30	20:45	16:15	11:10
Col. depth(m)	100	100	100	100	100	100	100	100	100	100
Pre. Volume(cc)	1.4	5.5	2.0	0.8	5.8	0.4	0.9	1.9	0.5	3.8
Biomass(mg/ $\bar{m}$)	25.16	56.60	22.01	17.61	56.60	6.29	9.43	15.72	4.40	47.17
Copepoda	795	2649	1390	286	3102	1040	960	1718	296	4782
Amphipoda	17	48	3	4	40	25	13	17	12	36
Chaetognatha	136	104	28	18	184	21	6	74	15	144
Euphausia Adult	3	10	8	0	24	0	0	1	1	4
Larva	2	7	4	1	5	0	2	1	3	3

105 線 浮游生物 調査表

Plankton Data, Line 105

Month	Feb .					Apr .				
Station	03	05	07	09	11	03	05	07	09	11
Date	13	12	12	12	12	12	12	16	16	18
Time	05:28	03:08	21:39	16:09	10:18	05:30	07:20	18:20	23:50	19:30
Col. depth(m)	50	100	100	100	100	50	100	100	100	100
Pre. Volume(cc)	3.2	4.0	3.6	3.2	1.8	2.8	3.3	1.8	1.7	2.8
Biomass(mg/ $\bar{m}$)	3.52	5.85	5.03	4.08	1.89	50.31	35.22	19.50	22.01	51.57
Copepoda	592	912	1888	2208	1288	240	1056	1120	1664	512
Amphipoda	16	21	20	156	6	8	1	4	8	12
Chaetognatha	22	47	344	82	15	0	1	0	2	0
Euphausia Adult	0	2	0	0	0	2	3	1	0	3
Larva	13	21	12	12	4	19	17	1	8	25

Month	Jun .					Aug .				
Station	03	05	07	09	11	03	05	07	09	11
Date	7	7	8	8	8	7	7	7	6	6
Time	17:25	20:00	03:30	07:20	13:15	13:05	08:55	03:10	21:35	13:45
Col. depth(m)	50	100	100	100	100	50	100	100	100	100
Pre. Volume(cc)	2.1	3.5	2.0	1.6	0.5	5.0	2.9	6.0	5.1	2.1
Biomass(mg/ $\bar{m}$)	18.87	50.94	18.87	18.87	6.92	50.31	31.45	66.04	47.17	25.16
Copepoda	1400	1707	880	648	324	2583	936	1624	968	816
Amphipoda	8	41	46	13	2	19	4	16	25	21
Chaetognatha	16	13	5	0	4	544	74	120	147	362
Euphausia Adult	0	3	0	0	0	3	0	2	2	0
Larva	2	82	3	0	1	117	4	6	6	2

Month	Oct .					Dec .				
Station	03	05	07	09	11	03	05	07	09	11
Date	8	11	11	11	12	9	9	9	9	9
Time	07:50	09:45	14:55	20:00	01:10	22:10	19:40	14:40	08:40	03:10
Col. depth(m)	50	100	100	100	100	50	100	100	100	100
Pre. Volume(cc)	1.6	4.1	1.0	1.3	4.1	1.9	4.6	0.9	4.0	2.0
Biomass(mg/ $\bar{m}$)	25.16	44.03	12.58	22.01	44.03	12.58	62.89	6.29	47.17	12.58
Copepoda	918	1849	542	1312	2856	1829	4112	848	3840	904
Amphipoda	13	74	2	3	24	34	62	2	66	26
Chaetognatha	17	108	48	38	204	111	96	53	809	308
Euphausia Adult	5	4	0	9	7	1	5	0	1	0
Larva	0	2	0	2	9	1	4	1	12	4

104 線 浮游生物 調査表

Plankton Data, Line 104

Month	Feb.				Apr.			
Station	05	07	09	11	05	07	09	11
Date	11	11	12	12	19	19	19	18
Time	14:21	18:15	00:05	05:15	16:10	11:50	06:00	10:20
Col. depth(m)	100	100	100	100	100	100	100	100
Pre. Volume(cc)	1.4	4.0	4.2	3.5	2.9	7.0	8.0	8.0
Biomass(mg/ $\bar{m}$)	2.20	8.18	5.66	3.45	34.59	12.58	62.89	42.14
Copepoda	928	904	1864	1027	656	240	960	1040
Amphipoda	8	29	30	13	1	21	41	8
Chaetognatha	21	18	49	11	1	1	47	0
Euphausia Adult	0	0	0	0	2	1	0	2
Larva	11	16	18	14	21	10	9	39

Month	Jun.				Aug.			
Station	05	07	09	11	05	07	09	11
Date	9	9	8	8	5	5	6	6
Time	10:00	05:10	23:25	17:50	18:30	21:30	03:45	09:35
Col. depth(m)	100	100	100	100	100	100	100	100
Pre. Volume(cc)	2.8	2.7	4.1	5.5	2.3	6.1	2.6	1.5
Biomass(mg/ $\bar{m}$)	18.87	12.58	37.74	33.96	25.16	62.89	28.30	12.58
Copepoda	1224	720	1603	1920	1280	1432	408	539
Amphipoda	33	17	25	24	2	47	11	3
Chaetognatha	2	37	23	0	152	432	35	58
Euphausia Adult	0	1	0	0	5	2	3	0
Larva	4	71	43	5	1	3	1	0

Month	Oct.				Dec.			
Station	05	07	09	11	05	07	09	11
Date	12	12	12	12	8	8	8	8
Time	05:30	10:40	15:35	12:10	08:30	12:40	17:00	22:20
Col. depth(m)	100	100	100	100	100	100	100	100
Pre. Volume(cc)	2.5	2.0	2.6	2.5	2.2	0.6	0.8	2.1
Biomass(mg/ $\bar{m}$)	50.31	31.45	28.30	31.45	25.16	5.03	6.29	22.0
Copepoda	3040	2027	2592	2920	2560	668	894	1620
Amphipoda	12	19	9	12	16	0	2	41
Chaetognatha	111	288	176	204	89	16	25	256
Euphausia Adult	7	1	4	1	1	0	0	0
Larva	3	1	2	0	7	3	5	4

103 線 浮游生物 調査表

Plankton Data, Line 103

Month	Feb.				Apr.			
Station	05	07	09	11	05	07	09	11
Date	3	3	3	4	6	6	6	7
Time	14:30	17:20	21:15	01:10	12:25	15:35	19:55	00:15
Col. depth(m)	100	100	100	100	100	100	100	100
Pre. Volume(cc)	2.8	5.1	3.7	2.8	1.7	1.0	4.0	15.0
Biomass(mg/ml)	27.04	78.62	33.96	18.87	32.08	30.19	67.92	97.48
Copepoda	1826	2033	371	639	290	434	946	352
Amphipoda	14	68	9	26	1	0	25	5
Chaetognatha	21	14	17	8	4	0	4	3
Euphausia Adult	1	1	1	1	0	0	3	0
Larva	25	60	40	11	8	30	80	0

Month	Jun.				Aug.			
Station	05	07	09	11	05	07	09	11
Date	8	8	8	9	7	6	6	6
Time	14:23	17:45	22:20	02:55	01:55	22:30	17:55	13:20
Col. depth(m)	100	100	100	100	100	100	100	100
Pre. Volume(cc)	1.4	8.9	2.9	5.3	5.0	7.0	4.0	6.0
Biomass(mg/ml)	28.30	81.76	50.31	74.84	50.31	57.86	53.46	55.97
Copepoda	168	737	376	219	279	451	361	180
Amphipoda	9	16	28	92	27	25	15	18
Chaetognatha	8	24	4	3	63	26	45	224
Euphausia Adult	0	3	0	13	0	3	4	0
Larva	24	38	16	78	0	6	5	0

Month	Oct.				Dec.			
Station	05	07	09	11	05	07	09	11
Date	6	6	6	7	19	19	20	20
Time	13:00	16:00	20:15	00:30	18:15	21:10	01:25	05:40
Col. depth(m)	100	100	100	100	100	100	100	100
Pre. Volume(cc)	6.8	8.0	5.0	7.9	15.0	2.5	4.5	3.5
Biomass(mg/ml)	99.37	95.60	88.05	95.60	185.53	34.59	4.25	47.17
Copepoda	237	217	528	567	105	329	318	200
Amphipoda	22	7	24	34	0	3	0	16
Chaetognatha	28	64	24	25	18	11	9	10
Euphausia Adult	4	0	4	0	84	5	3	1
Larva	3	3	1	3	14	8	19	1

102 線 浮游生物 調査表

Plankton Data, Line 102

Month	Feb.				Apr.			
Station	05	07	09	11	05	07	09	11
Date	10	4	4	4	7	7	7	7
Time	11:05	15:40	12:00	08:05	14:55	12:10	07:50	03:30
Col. depth(m)	100	100	100	100	100	100	100	100
Pre. Volume(cc)	2.3	3.0	3.5	3.9	2.0	0.5	13.0	10.0
Biomass(mg/ $\bar{m}$)	28.30	125.79	25.79	40.25	32.70	22.64	94.34	97.48
Copepoda	819	665	576	702	336	372	949	168
Amphipoda	4	0	20	23	0	0	15	6
Chaetognatha	41	12	14	21	0	0	3	0
Adult	0	0	4	1	0	0	1	0
Euphausia Larva	26	36	38	21	6	80	63	0

Month	Jun.				Aug.			
Station	05	07	09	11	05	07	09	11
Date	9	9	9	9	5	6	6	6
Time	18:22	15:25	10:32	06:15	22:00	00:50	05:25	10:00
Col. depth(m)	100	100	100	100	100	100	100	100
Pre. Volume(cc)	4.5	6.5	3.4	2.9	15.0	7.0	4.0	5.0
Biomass(mg/ $\bar{m}$)	78.62	106.92	47.17	45.28	261.01	86.79	31.45	57.23
Copepoda	414	952	630	744	574	413	342	264
Amphipoda	13	12	90	59	36	27	11	77
Chaetognatha	29	5	57	13	47	62	38	296
Adult	0	0	0	3	110	0	3	0
Euphausia Larva	20	58	10	0	165	29	45	0

Month	Oct.				Dec.			
Station	05	07	09	11	05	07	09	11
Date	7	7	7	7	16	16	16	16
Time	14:45	12:15	07:55	03:40	11:10	13:45	18:00	22:15
Col. depth(m)	100	100	100	100	100	100	100	100
Pre. Volume(cc)	6.0	5.0	5.0	4.8	1.4	0.8	4.0	2.0
Biomass(mg/ $\bar{m}$)	93.71	54.09	56.60	86.16	14.47	9.43	41.51	30.19
Copepoda	310	249	531	595	405	384	266	92
Amphipoda	90	5	14	36	1	0	3	3
Chaetognatha	26	11	47	33	27	0	2	4
Adult	0	0	0	0	0	0	0	2
Euphausia Larva	9	3	0	4	8	1	5	1

209 線 浮游生物 調査表

Plankton Data, Line 209

Month	Feb .				Apr .			
Station	05	07	09	11	05	07	09	11
Date	10	9	9	9	8	12	12	12
Time	11:05	13:45	17:25	21:05	13:40	09:25	13:35	17:45
Col. depth(m)	100	100	100	100	100	100	100	100
Pre. Volume(cc)	5.0	1.9	2.8	2.0	10.0	0.5	1.0	0.5
Biomass(mg/ <i>m</i> ³)	42.14	32.70	26.42	25.16	88.68	51.57	55.35	13.84
Copepoda	747	1023	639	735	110	81	78	6
Amphipoda	0	0	3	2	0	0	0	0
Chaetognatha	20	20	5	23	0	0	0	0
Euphausia Adult	0	0	0	1	1	7	1	0
Larva	46	34	5	19	124	111	212	0

Month	Jun .				Aug .			
Station	05	07	09	11	05	07	09	11
Date	9	10	10	10	5	5	5	5
Time	22:43	01:53	06:02	06:13	17:40	14:30	10:20	06:10
Col. depth(m)	100	100	100	100	100	100	100	100
Pre. Volume(cc)	2.3	4.5	2.8	7.9	18.0	5.0	12.5	12.8
Biomass(mg/ <i>m</i> ³)	66.67	58.49	44.65	94.34	267.92	40.25	73.58	110.06
Copepoda	47	536	308	480	960	376	405	352
Amphipoda	1	89	48	17	98	18	5	33
Chaetognatha	4	19	16	93	155	17	31	144
Euphausia Adult	0	0	0	0	261	0	0	0
Larva	4	29	4	49	21	8	25	2

Month	Oct .				Dec .			
Station	05	07	09	11	05	07	09	11
Date	7	7	8	8	14	14	14	14
Time	18:35	21:20	01:12	05:10	14:55	12:05	08:15	04:25
Col. depth(m)	100	100	100	100	100	100	100	100
Pre. Volume(cc)	9.0	7.0	8.0	8.0	2.0	4.0	3.0	1.8
Biomass(mg/ <i>m</i> ³)	82.39	81.13	89.31	98.74	22.64	58.49	34.59	11.32
Copepoda	315	148	413	486	129	517	612	125
Amphipoda	38	59	41	39	0	0	2	1
Chaetognatha	7	17	12	15	3	16	12	5
Euphausia Adult	2	3	0	0	0	0	0	0
Larva	15	6	0	5	2	2	4	1

208 線 浮游生物 調査表

Plankton Data, Line 208

Month	Feb.					Apr.				
Station	01	03	05	07	09	01	03	05	07	09
Date	10	10	10	10	10	-	13	13	13	12
Time	11:45	09:20	06:40	04:00	01:20	-	07:30	04:20	01:20	22:20
Col. depth(m)	70	100	100	100	100	-	100	100	100	100
Pre. Volume(cc)	1.6	3.0	3.0	3.2	3.5	-	15.0	6.2	25.0	10.0
Biomass(mg/m ³)	6.29	15.72	36.48	20.75	36.48	-	108.18	62.89	138.36	132.70
Copepoda	350	343	464	376	480	-	132	152	195	480
Amphipoda	0	0	2	1	1	-	0	1	0	1
Chaetognatha	0	8	5	11	13	-	0	1	0	1
Euphausia Adult	4	0	3	1	3	-	5	9	7	0
Larva	0	58	69	40	26	-	154	120	528	150

Month	Jun.					Aug.				
Station	01	03	05	07	09	01	03	05	07	09
Date	11	10	10	10	10	4	4	4	4	5
Time	02:50	23:57	20:47	17:45	14:45	14:00	16:40	19:40	22:45	01:45
Col. depth(m)	70	100	100	100	100	70	100	100	100	100
Pre. Volume(cc)	4.4	20.0	10.0	4.5	8.2	3.8	5.1	15.1	10.0	9.0
Biomass(mg/m ³)	78.17	280.50	150.94	66.04	131.45	53.01	62.26	119.50	88.05	59.75
Copepoda	408	544	220	159	318	816	574	1140	392	325
Amphipoda	19	14	4	0	3	25	54	7	2	18
Chaetognatha	8	26	40	25	49	23	23	27	26	22
Euphausia Adult	0	0	0	0	0	0	0	0	0	0
Larva	18	27	5	2	8	3	15	24	16	3

Month	Oct.					Dec.				
Station	01	03	05	07	09	01	03	05	07	09
Date	-	8	8	8	8	13	13	13	13	14
Time	-	17:30	14:40	12:00	09:20	13:20	15:50	18:45	21:25	00:05
Col. depth(m)	-	100	100	100	100	70	100	100	100	100
Pre. Volume(cc)	-	7.0	12.2	8.5	10.0	2.0	1.0	3.0	4.8	4.5
Biomass(mg/m ³)	-	50.94	105.66	104.40	98.11	41.44	6.29	28.93	56.60	55.35
Copepoda	-	240	612	190	650	384	108	792	585	806
Amphipoda	-	12	27	5	8	2	0	0	3	5
Chaetognatha	-	8	14	12	23	5	6	9	53	10
Euphausia Adult	-	0	0	0	0	0	0	1	0	0
Larva	-	15	6	4	9	0	0	1	4	6

南海浮游生物調查成績

PLANKTON DATA: SOUTHERN WATERS

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207 線 浮游生物 調査表

Plankton Data, Line 207

Month	Feb .			Apr .		
Station	01	03	05	01	03	05
Date	4	6	-	6	6	6
Time	15:15	12:25	-	14:20	16:25	18:25
Col. depth(m)	82	115	-	84	110	160
Pre. Volume(cc)	1.3	2.0	-	3.1	1.9	2.4
Biomass(mg/ml)	6.90	21.33	-	7.49	10.29	29.49
Copepoda	560	750	-	744	864	350
Amphipoda	0	0	-	3	0	2
Chaetognatha	14	11	-	1	0	6
Euphausia Adult	0	0	-	0	0	0
Larva	2	21	-	5	3	27

Month	Jun .			Aug .		
Station	01	03	05	01	03	05
Date	18	18	18	4	4	4
Time	10:31	08:07	06:06	15:20	17:00	19:00
Col. depth(m)	84	115	160	84	120	160
Pre. Volume(cc)	4.9	6.1	6.1	0.7	0.7	0.4
Biomass(mg/ml)	41.95	25.16	29.09	9.74	11.01	3.93
Copepoda	850	760	936	240	616	312
Amphipoda	14	3	5	0	1	0
Chaetognatha	140	20	21	17	3	4
Euphausia Adult	0	0	0	0	0	0
Larva	36	8	101	9	5	4

Month	Oct .			Dec .		
Station	01	03	05	01	03	05
Date	5	5	5	10	10	10
Time	15:00	16:40	19:00	14:50	16:00	18:00
Col. depth(m)	84	115	160	84	113	160
Pre. Volume(cc)	4.5	6.0	3.1	0.4	1.2	1.0
Biomass(mg/ml)	50.19	18.05	14.55	8.99	10.58	4.33
Copepoda	640	800	1600	800	656	280
Amphipoda	43	11	1	1	5	2
Chaetognatha	21	5	14	2	12	4
Euphausia Adult	0	0	0	0	0	0
Larva	0	0	1	4	6	4

206 線 浮游生物 調査表

Plankton Data, Line 206

Month	Feb .			Apr .		
Station	01	03	05	01	03	05
Date	7	6	6	7	7	6
Time	00:45	22:10	19:30	05:45	02:35	23:40
Col. depth(m)	62	95	130	62	93	130
Pre. Volume(cc)	2.1	1.0	2.0	7.1	3.5	3.2
Biomass(mg/ml)	42.60	19.87	35.80	89.25	59.34	35.80
Copepoda	780	180	380	1400	-	165
Amphipoda	3	0	0	2	-	3
Chaetognatha	17	12	7	25	-	4
Euphausia Adult	15	0	0	2	-	0
Larva	2	1	7	32	-	34

Month	Jun .			Aug .		
Station	01	03	05	01	03	05
Date	17	17	18	5	5	4
Time	19:52	22:42	01:22	05:20	02:20	11:40
Col. depth(m)	62	94	130	62	94	128
Pre. Volume(cc)	2.5	5.2	3.5	0.9	4.0	2.8
Biomass(mg/ml)	42.59	82.33	18.87	10.14	38.82	22.60
Copepoda	656	1340	1056	424	3600	2100
Amphipoda	11	11	4	2	1	3
Chaetognatha	49	40	28	14	13	11
Euphausia Adult	2	1	3	0	0	0
Larva	12	376	253	4	13	11

Month	Oct .			Dec .		
Station	01	03	05	01	03	05
Date	6	6	5	11	11	10
Time	04:30	02:00	23:30	03:30	01:00	22:45
Col. depth(m)	62	94	130	62	94	130
Pre. Volume(cc)	10.0	7.5	3.8	1.2	3.2	2.3
Biomass(mg/ml)	29.41	41.50	27.58	26.37	39.49	18.38
Copepoda	640	880	1480	320	1600	800
Amphipoda	2	7	8	0	2	6
Chaetognatha	62	41	13	20	51	29
Euphausia Adult	1	1	1	2	3	1
Larva	2	0	0	2	13	4

205 線 浮游生物 調査表

Plankton Data, Line 205

Month	Feb .			Apr .		
Station	01	03	05	01	03	05
Date	10	10	10	8	8	7
Time	08:10	06:20	00:40	07:13	03:23	22:55
Col. depth(m)	55	60	115	54	86	116
Pre. Volume(cc)	0.2	0.3	0.4	4.7	5.1	3.1
Biomass(mg/ml)	17.16	5.24	27.35	36.13	6.58	3.25
Copepoda	145	130	420	300	15	784
Amphipoda	0	0	0	4	1	12
Chaetognatha	3	0	3	2	0	13
Euphausia Adult	0	0	1	0	4	6
Larva	2	0	8	2	0	10

Month	Jun .			Aug .		
Station	01	03	05	01	03	05
Date	14	14	14	6	6	5
Time	11:32	14:22	18:02	02:45	00:00	20:35
Col. depth(m)	54	85	116	52	70	108
Pre. Volume(cc)	2.2	1.0	3.1	4.1	0.3	1.0
Biomass(mg/ml)	40.79	17.02	39.59	16.93	19.77	5.24
Copepoda	986	856	2536	720	43	296
Amphipoda	3	0	11	3	0	0
Chaetognatha	8	3	9	21	0	0
Euphausia Adult	0	0	0	0	0	0
Larva	33	2	61	16	0	2

Month	Oct .			Dec .		
Station	01	03	05	01	03	05
Date	8	8	7	14	14	13
Time	03:10	00:45	21:15	04:15	02:00	22:25
Col. depth(m)	54	86	117	54	86	115
Pre. Volume(cc)	24.5	2.2	1.7	1.0	0.8	3.0
Biomass(mg/ml)	403.26	8.78	6.99	13.99	17.56	29.54
Copepoda	800	480	310	800	440	560
Amphipoda	5	0	2	20	3	1
Chaetognatha	50	1	2	48	7	21
Euphausia Adult	0	0	0	3	2	13
Larva	1	2	0	13	7	5

204 線 浮游生物 調査表

Plankton Data, Line 204

Month	Feb.			Apr.		
Station	02	04	06	02	04	06
Date	10	-	-	8	10	10
Time	10:20	-	-	09:20	08:10	10:56
Col. depth(m)	28	-	-	30	75	128
Pre. Volume(cc)	0.2	-	-	4.9	1.1	11.3
Biomass(mg/ml)	8.99	-	-	50.31	13.42	78.13
Copepoda	94	-	-	496	350	552
Amphipoda	0	-	-	0	0	0
Chaetognatha	4	-	-	0	3	8
Euphausia Adult	0	-	-	0	0	0
Larva	0	-	-	5	34	9

Month	Jun.			Aug.		
Station	02	04	06	02	04	06
Date	14	-	12	6	8	8
Time	09:17	-	09:42	04:20	09:30	12:10
Col. depth(m)	28	-	128	28	75	128
Pre. Volume(cc)	2.0	-	2.3	1.4	2.5	0.3
Biomass(mg/ml)	253.93	-	24.08	17.98	39.43	1.97
Copepoda	2048	-	384	152	848	64
Amphipoda	11	-	6	0	2	0
Chaetognatha	22	-	24	0	46	2
Euphausia Adult	0	-	0	0	0	0
Larva	81	-	0	5	2	0

Month	Oct.			Dec.		
Station	02	04	06	02	04	06
Date	8	8	8	14	15	15
Time	05:00	08:15	10:40	05:50	10:30	12:40
Col. depth(m)	30	75	128	28	75	128
Pre. Volume(cc)	6.1	2.9	2.2	2.0	0.7	6.0
Biomass(mg/ml)	121.59	56.21	13.76	42.45	16.78	38.82
Copepoda	1080	320	768	400	100	1200
Amphipoda	5	2	1	3	0	2
Chaetognatha	73	38	10	25	14	50
Euphausia Adult	0	0	0	1	0	0
Larva	3	0	0	1	0	2

203 線 浮游生物 調査表

Plankton Data, Line 203

Month	Feb.		Apr.	
Station	01	03	01	03
Date	17	-	14	14
Time	10:00	-	12:50	10:15
Col. depth(m)	55	-	60	135
Pre. Volume(cc)	0.2	-	0.9	2.7
Biomass(mg/ $\bar{m}^3$)	1.36	-	22.01	17.25
Copepoda	120	-	140	275
Amphipoda	0	-	0	0
Chaetognatha	4	-	0	2
Euphausia Adult	0	-	0	0
Larva	2	-	7	4

Month	Jun.		Aug.	
Station	01	03	01	03
Date	8	8	17	17
Time	14:40	17:30	10:20	07:40
Col. depth(m)	55	130	57	133
Pre. Volume(cc)	0.6	3.2	2.2	2.2
Biomass(mg/ $\bar{m}^3$)	6.86	44.03	66.23	38.32
Copepoda	168	3160	912	456
Amphipoda	0	66	19	34
Chaetognatha	1	7	93	48
Euphausia Adult	0	0	0	0
Larva	6	18	5	2

Month	Oct.		Dec.	
Station	01	03	01	03
Date	14	14	19	19
Time	10:10	07:40	12:25	10:15
Col. depth(m)	58	130	56	130
Pre. Volume(cc)	3.8	8.4	3.0	0.3
Biomass(mg/ $\bar{m}^3$)	20.61	61.93	121.35	8.22
Copepoda	1200	2000	640	160
Amphipoda	0	10	1	3
Chaetognatha	78	64	28	3
Euphausia Adult	0	0	0	0
Larva	1	10	2	2

313 線 浮游生物 調査表

Plankton Data, Line 313

Month	Feb .				Apr .			
Station	03	05	07	09	03	05	07	09
Date	16	16	16	15	13	13	13	13
Time	06:40	04:15	01:39	23:10	11:20	08:40	06:04	03:15
Col. depth(m)	90	84	70	70	92	83	72	70
Pre. Volume(cc)	1.3	2.2	1.2	0.4	2.5	1.4	3.0	3.4
Biomass(mg/ml)	18.17	30.71	30.55	1.80	23.94	2.27	27.07	64.69
Copepoda	250	250	270	180	768	480	400	-
Amphipoda	0	4	0	0	8	0	1	-
Chaetognatha	11	32	14	7	7	2	2	-
Euphausia Adult	0	2	0	0	0	1	2	-
Larva	0	1	2	0	3	0	0	-

Month	Jun .				Aug .			
Station	03	05	07	09	03	05	07	09
Date	10	10	10	10	17	17	16	16
Time	12:30	15:25	18:17	21:05	04:00	01:35	22:50	20:20
Col. depth(m)	92	84	72	70	92	89	75	70
Pre. Volume(cc)	0.5	0.4	1.8	4.1	6.2	1.9	1.2	2.5
Biomass(mg/ml)	9.57	6.74	23.58	78.17	89.60	21.20	25.17	22.46
Copepoda	368	1216	2144	4000	1256	664	400	344
Amphipoda	19	6	25	22	8	7	4	11
Chaetognatha	1	8	48	38	49	5	17	3
Euphausia Adult	0	0	0	11	0	0	0	3
Larva	0	2	4	27	4	1	2	4

Month	Oct .				Dec .			
Station	03	05	07	09	03	05	07	09
Date	12	12	-	12	17	17	16	16
Time	10:55	08:30	-	03:20	04:40	02:20	24:20	21:30
Col. depth(m)	92	84	-	70	92	84	72	70
Pre. Volume(cc)	0.8	4.1	-	9.9	1.0	0.2	0.2	0.5
Biomass(mg/ml)	6.84	22.47	-	110.51	19.15	14.23	5.24	14.38
Copepoda	80	168	-	616	320	80	100	320
Amphipoda	0	0	-	10	1	0	0	3
Chaetognatha	0	19	-	25	6	0	1	5
Euphausia Adult	0	1	-	1	0	0	0	0
Larva	0	0	-	0	3	0	1	0

314 線 浮游生物 調査表

Plankton Data, Line 314

Month	Feb.					Apr.				
Station	01	03	05	07	09	01	03	05	07	09
Date	13	-	-	15	15	10	11	11	12	12
Time	00:50	-	-	11:40	15:15	22:55	02:50	06:35	15:55	19:40
Col. depth(m)	140	-	-	85	80	140	110	100	90	80
Pre. Volume(cc)	0.1	-	-	0.3	1.1	1.8	156.09	7.4	3.8	6.0
Biomass(mg/ $\bar{m}$)	4.49	-	-	2.96	26.73	41.35	184.0	71.70	39.13	82.55
Copepoda	120	-	-	150	141	780	1210	2560	1624	370
Amphipoda	0	-	-	0	1	0	7	13	0	7
Chaetognatha	4	-	-	2	8	24	13	13	1	2
Euphausia Adult	0	-	-	0	0	6	64	4	3	56
Larva	0	-	-	0	0	22	31	7	5	24

Month	Jun.					Aug.				
Station	01	03	05	07	09	01	03	05	07	09
Date	11	11	11	-	11	9	10	-	16	16
Time	20:49	17:00	13:05	-	05:03	23:20	03:30	-	09:10	12:50
Col. depth(m)	130	110	100	-	80	128	100	-	90	82
Pre. Volume(cc)	3.5	6.8	1.2	-	2.6	3.0	2.1	-	0.5	2.2
Biomass(mg/ $\bar{m}$)	44.50	51.46	14.46	-	40.09	30.47	47.80	-	17.47	26.09
Copepoda	784	480	888	-	2628	1376	1080	-	184	448
Amphipoda	13	18	25	-	42	0	7	-	24	30
Chaetognatha	16	21	2	-	1	56	26	-	0	10
Euphausia Adult	4	0	1	-	10	0	0	-	0	0
Larva	17	1	0	-	8	0	0	-	2	2

Month	Oct.					Dec.				
Station	01	03	05	07	09	01	03	05	07	09
Date	-	9	9	11	11	16	16	16	16	16
Time	-	01:00	08:35	16:50	20:05	00:45	04:10	07:40	11:15	14:45
Col. depth(m)	-	110	100	90	80	140	110	100	90	80
Pre. Volume(cc)	-	6.3	2.0	8.2	7.8	2.8	7.0	5.0	1.0	1.0
Biomass(mg/ $\bar{m}$)	-	46.31	22.01	55.21	66.04	26.07	84.05	62.89	25.86	38.52
Copepoda	-	1450	960	350	536	520	1200	1780	560	880
Amphipoda	-	37	6	13	4	13	42	15	0	1
Chaetognatha	-	31	13	11	4	19	59	57	13	43
Euphausia Adult	-	8	1	0	0	12	12	0	0	1
Larva	-	1	1	0	3	2	26	8	2	4

400 線 浮游生物 調査表

Plankton Data, Line 400

Month	Feb.					Apr.				
Station	12	14	16	25	27	12	14	16	25	27
Date	9	9	9	12	12	7	7	7	10	10
Time	20:20	14:25	10:14	17:30	13:45	19:00	13:00	08:13	15:30	11:53
Col. depth(m)	100	80	40	90	125	100	83	43	100	125
Pre. Volume(cc)	0.1	1.7	1.3	0.1	0.1	4.0	2.8	3.1	2.4	8.5
Biomass(mg/ml)	0.63	36.16	78.62	4.89	1.51	3.14	3.03	57.02	28.30	118.61
Copepoda	150	570	420	120	160	700	350	370	450	520
Amphipoda	0	2	0	2	0	0	0	0	0	3
Chaetognatha	0	21	21	0	0	1	0	4	8	5
Euphausia Adult	0	0	0	0	0	0	0	0	0	0
Larva	0	0	21	0	0	0	15	12	0	6

Month	Jun.					Aug.				
Station	12	14	16	25	27	12	14	16	25	27
Date	14	15	15	12	12	5	5	5	9	9
Time	22:12	03:40	08:17	04:50	08:36	16:50	11:35	7:20	16:10	12:00
Col. depth(m)	98	80	44	100	130	97	80	43	90	92
Pre. Volume(cc)	6.3	2.0	3.8	15.1	3.3	1.3	2.2	3.2	1.1	0.4
Biomass(mg/ml)	69.32	25.94	50.07	120.13	8.22	18.81	31.45	38.01	18.17	0.68
Copepoda	1744	632	1248	848	640	1248	704	1416	928	600
Amphipoda	8	2	1	30	23	3	6	1	0	4
Chaetognatha	9	7	15	40	9	4	20	49	0	5
Euphausia Adult	0	5	1	0	0	0	1	1	0	0
Larva	152	79	26	19	2	6	17	8	23	0

Month	Oct.					Dec.				
Station	12	14	16	25	27	12	14	16	25	27
Date	7	7	7	8	8	13	13	13	15	15
Time	17:45	12:35	08:30	14:50	11:20	18:50	14:05	10:10	17:35	14:00
Col. depth(m)	102	85	43	100	125	100	85	40	100	120
Pre. Volume(cc)	2.7	7.0	2.0	5.2	3.3	6.2	1.4	0.1	3.4	2.5
Biomass(mg/ml)	8.02	70.32	24.85	35.22	12.08	86.79	17.02	23.58	36.48	37.21
Copepoda	976	560	3600	856	800	1600	560	160	240	2000
Amphipoda	24	7	4	5	5	16	1	0	1	8
Chaetognatha	22	31	42	62	25	80	5	13	5	51
Euphausia Adult	0	1	0	0	0	6	0	0	0	0
Larva	0	0	0	6	1	13	1	0	3	4

西海浮游生物調查成績

PLANKTON DATA : WESTERN WATERS

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307 線 浮游生物 調査表

Plankton Data, Line 307

Month	Feb.				Apr.			
Station	03	05	07	09	03	05	07	09
Date	8	8	8	8	6	7	7	7
Time	11:50	16:10	19:40	23:10	21:05	01:20	04:45	08:15
Col. depth(m)	30	45	50	50	30	40	50	60
Pre. Volume(cc)	4.4	4.3	1.0	6.1	0.5	9.0	10.7	6.6
Biomass(mg/ $\bar{m}$)	69.42	42.13	8.88	48.35	47.23	200.42	174.61	100.48
Copepoda	296	27	152	604	154	836	1276	2072
Amphipoda	1	2	0	0	0	2	29	3
Chaetognatha	40	161	13	197	9	134	78	57
Euphausia Adult	0	0	0	0	0	3	0	0
Larva	0	0	0	12	0	3	0	7

Month	Jun.				Aug.			
Station	03	05	07	09	03	05	07	09
Date	5	5	5	5	8	8	8	8
Time	11:00	15:20	18:50	22:20	09:35	13:55	17:25	20:55
Col. depth(m)	30	40	50	60	30	50	50	60
Pre. Volume(cc)	0.6	3.5	2.7	3.2	0.5	2.8	0.5	1.5
Biomass(mg/ $\bar{m}$)	16.08	111.96	55.41	72.97	35.15	61.94	20.85	140.27
Copepoda	89	1868	316	1116	278	457	160	392
Amphipoda	0	0	7	0	2	1	0	14
Chaetognatha	0	17	0	8	111	404	57	1294
Euphausia Adult	0	0	0	0	0	0	0	0
Larva	1	24	13	12	1	5	14	158

Month	Oct.				Dec.			
Station	03	05	07	09	03	05	07	09
Date	6	6	7	7	10	10	10	10
Time	17:40	22:05	01:30	04:55	10:50	15:05	18:30	21:25
Col. depth(m)	30	50	50	60	30	50	50	60
Pre. Volume(cc)	1.0	8.0	10.1	11.0	0.5	0.8	1.5	1.1
Biomass(mg/ $\bar{m}$)	26.71	148.68	96.92	128.81	23.23	68.86	65.65	48.67
Copepoda	169	184	242	344	100	205	389	167
Amphipoda	0	2	0	2	0	2	2	0
Chaetognatha	10	428	166	258	12	107	125	58
Euphausia Adult	0	0	0	0	0	0	0	0
Larva	5	32	32	22	5	5	6	0

308 線 浮游生物 調査表

Plankton Data, Line 308

Month	Feb.					Apr.				
Station	01	03	05	07	09	01	03	05	07	09
Date	9	9	9	9	9	8	8	8	7	7
Time	22:00	18:35	15:10	11:40	08:05	07:10	03:45	00:20	20:50	17:10
Col. depth(m)	15	40	40	50	70	15	40	40	60	70
Pre. Volume(cc)	3.0	7.1	9.1	5.2	9.2	1.5	3.8	3.8	2.8	6.1
Biomass(mg/ $\bar{m}$)	138.78	78.03	100.86	121.61	56.09	46.64	74.97	69.06	59.46	67.84
Copepoda	184	71	96	302	93	300	1698	1902	1496	1968
Amphipoda	0	0	0	2	0	5	1	3	0	7
Chaetognatha	96	136	330	352	388	24	32	14	28	160
Euphausia Adult	0	6	0	0	16	0	0	0	0	2
Larva	4	0	13	25	0	3	0	16	69	2

Month	Jun.					Aug.				
Station	01	03	05	07	09	01	03	05	07	09
Date	6	6	6	6	6	9	9	9	9	9
Time	21:05	17:40	14:15	10:45	17:10	19:30	16:15	12:50	09:25	05:50
Col. depth(m)	15	40	40	60	70	15	40	40	60	70
Pre. Volume(cc)	2.1	6.6	11.0	2.5	13.5	1.0	3.0	12.0	4.1	4.8
Biomass(mg/ $\bar{m}$)	139.62	27.04	150.86	100.89	59.57	156.63	97.20	153.31	211.01	84.72
Copepoda	462	768	808	246	2624	226	612	594	650	774
Amphipoda	0	0	0	0	0	0	0	0	4	2
Chaetognatha	4	5	7	4	59	261	253	736	1118	678
Euphausia Adult	0	0	0	0	1	0	0	0	0	0
Larva	13	8	8	8	81	7	12	34	52	21

Month	Oct.					Dec.				
Station	01	03	05	07	09	01	03	05	07	09
Date	8	8	7	7	7	15	15	11	11	11
Time	03:45	00:20	20:55	17:20	13:45	07:25	04:25	13:05	09:40	06:10
Col. depth(m)	15	40	40	60	70	15	40	40	60	70
Pre. Volume(cc)	3.9	7.1	7.8	21.0	13.0	1.3	1.0	2.0	4.0	1.7
Biomass(mg/ $\bar{m}$)	138.36	86.21	145.79	207.95	240.23	155.29	55.88	65.59	76.96	38.94
Copepoda	117	113	124	424	1296	429	138	326	842	160
Amphipoda	1	0	1	4	12	0	0	1	0	0
Chaetognatha	92	117	262	514	320	45	93	94	179	38
Euphausia Adult	0	0	0	0	1	0	0	0	0	0
Larva	15	15	7	12	30	18	46	21	39	15

309 線 浮游生物 調査表

Plankton Data, Line 309

Month	Feb.					Apr.				
Station	01	03	05	07	09	01	03	05	07	09
Date	10	11	11	11	11	8	11	11	11	11
Time	02:00	01:05	04:30	08:00	11:30	11:10	03:40	07:05	10:40	14:20
Col. depth(m)	20	40	50	50	70	20	40	60	60	70
Pre. Volume(cc)	0.7	2.0	2.2	2.7	5.7	1.5	3.3	3.3	1.9	2.3
Biomass(mg/ml)	—	65.68	36.13	62.54	58.44	117.67	89.98	85.59	34.71	34.81
Copepoda	—	424	252	436	704	204	1116	684	500	940
Amphipoda	—	0	0	0	1	0	53	4	8	0
Chaetognatha	—	69	46	155	388	26	0	31	11	4
Euphausia Adult	—	18	0	0	0	0	0	0	0	0
Larva	—	0	0	22	17	4	1	0	6	0

Month	Jun.					Aug.				
Station	01	03	05	07	09	01	03	05	07	09
Date	7	7	7	7	7	9	10	10	10	10
Time	01:10	04:30	07:50	11:15	14:40	23:30	02:50	06:15	09:50	13:20
Col. depth(m)	20	40	60	60	70	20	50	60	60	70
Pre. Volume(cc)	3.5	1.9	2.1	3.6	3.7	2.1	9.2	5.6	10.1	12.2
Biomass(mg/ml)	253.02	58.06	71.80	42.64	35.84	169.81	267.25	331.74	294.65	189.15
Copepoda	476	3080	488	1300	364	30	473	2217	184	556
Amphipoda	0	0	0	0	0	20	6	67	2	0
Chaetognatha	100	13	43	30	81	340	467	604	600	757
Euphausia Adult	0	0	0	0	0	0	0	0	0	0
Larva	79	38	44	34	13	56	195	17	18	12

Month	Oct.					Dec.				
Station	01	03	05	07	09	01	03	05	07	09
Date	8	9	9	9	9	18	20	20	20	20
Time	07:45	07:40	11:05	14:35	18:10	10:40	11:20	14:45	18:10	21:35
Col. depth(m)	20	50	60	60	70	20	50	60	60	70
Pre. Volume(cc)	2.8	5.2	2.1	11.3	11.8	0.5	0.5	1.0	2.0	1.0
Biomass(mg/ml)	164.67	78.76	41.25	223.09	131.83	51.41	41.09	38.18	33.72	33.58
Copepoda	118	247	171	1810	237	118	248	55	751	472
Amphipoda	0	0	0	20	1	1	1	0	2	2
Chaetognatha	33	185	99	642	534	26	69	19	108	60
Euphausia Adult	0	0	0	0	0	0	0	0	0	0
Larva	4	28	2	64	4	2	8	4	31	24

310 線 浮游生物 調査表

Plankton Data, Line 310

Month	Feb .				Apr .			
Station	03	05	07	09	03	05	07	09
Date	12	12	-	11	12	12	12	11
Time	06:30	03:00	-	19:40	09:35	06:00	02:25	22:40
Col. depth(m)	20	60	-	70	20	60	70	80
Pre. Volume(cc)	2.9	6.0	-	5.8	7.0	9.8	5.8	4.5
Biomass(mg/ $\bar{m}$)	79.81	34.19	-	57.67	163.58	124.06	78.97	25.83
Copepoda	105	172	-	860	298	152	170	136
Amphipoda	0	6	-	3	0	0	13	0
Chaetognatha	51	163	-	296	270	555	182	6
Euphausia Adult	0	0	-	0	9	47	22	0
Larva	16	64	-	0	0	49	0	3

Month	Jun .				Aug .			
Station	03	05	07	09	03	05	07	09
Date	8	8	8	7	11	11	11	10
Time	09:10	05:45	02:20	22:40	08:25	04:55	01:20	21:35
Col. depth(m)	20	60	70	80	20	60	70	80
Pre. Volume(cc)	6.0	12.1	10.0	15.5	0.5	2.0	0.2	5.3
Biomass(mg/ $\bar{m}$)	485.06	260.22	200.68	249.18	43.47	29.37	10.36	95.07
Copepoda	668	1224	1452	796	114	478	748	920
Amphipoda	5	26	33	21	0	0	0	51
Chaetognatha	29	102	243	508	11	9	104	290
Euphausia Adult	3	1	4	14	0	0	0	0
Larva	48	139	85	63	0	0	0	4

Month	Oct .				Dec .			
Station	03	05	07	09	03	05	07	09
Date	10	10	10	10	21	21	21	21
Time	13:10	09:40	06:25	02:25	16:15	12:50	09:25	05:40
Col. depth(m)	20	60	70	80	20	60	70	80
Pre. Volume(cc)	0.8	7.0	19.5	11.5	2.0	2.5	2.0	3.6
Biomass(mg/ $\bar{m}$)	34.73	145.64	472.09	252.84	111.66	69.17	53.77	69.39
Copepoda	88	1068	5052	3480	149	312	681	601
Amphipoda	0	0	16	75	0	0	2	2
Chaetognatha	9	105	364	250	94	109	53	111
Euphausia Adult	0	0	0	5	0	0	6	1
Larva	0	26	32	0	7	25	46	61

311 線 浮游生物 調査表

Plankton Data, Line 311

Month	Feb.			Apr.		
Station	05	07	09	05	07	09
Date	12	15	15	12	12	13
Time	13:20	12:20	16:05	16:30	21:00	00:45
Col. depth(m)	60	80	70	70	80	70
Pre. Volume(cc)	7.2	9.5	5.0	5.0	8.0	5.0
Biomass(mg/ $\bar{m}$)	31.34	26.81	42.61	51.70	30.17	19.56
Copepoda	252	102	106	1080	181	242
Amphipoda	3	1	0	5	1	0
Chaetognatha	64	95	187	180	32	138
Euphausia Adult	0	13	9	0	2	0
Larva	0	0	0	4	0	4

Month	Jun.			Aug.		
Station	05	07	09	05	07	09
Date	8	8	8	11	16	16
Time	15:20	19:40	23:25	15:10	13:35	17:10
Col. depth(m)	70	80	70	70	80	70
Pre. Volume(cc)	6.9	6.5	11.5	0.6	6.0	20.0
Biomass(mg/ $\bar{m}$)	109.66	157.58	254.41	21.23	68.89	266.74
Copepoda	705	1164	1604	175	151	1618
Amphipoda	0	17	14	15	15	34
Chaetognatha	17	21	77	45	140	580
Euphausia Adult	0	4	4	0	0	85
Larva	39	47	213	22	109	23

Month	Oct.			Dec.		
Station	05	07	09	05	07	09
Date	10	12	12	21	28	28
Time	20:00	07:55	11:35	23:05	07:35	11:10
Col. depth(m)	70	80	80	70	80	80
Pre. Volume(cc)	3.0	6.1	13.8	0.8	4.1	3.7
Biomass(mg/ $\bar{m}$)	64.22	121.34	170.17	28.77	82.79	27.10
Copepoda	554	1378	331	89	617	116
Amphipoda	9	112	68	0	4	0
Chaetognatha	152	285	594	21	124	84
Euphausia Adult	8	0	0	1	0	3
Larva	57	4	11	3	9	4

312 線 浮游生物 調査表

Plankton Data, Line 312

Month	Feb.				Apr.			
Station	03	05	07	09	03	05	07	09
Date	16	16	16	16	12	13	13	13
Time	13:05	09:20	04:55	01:15	21:05	17:45	13:20	09:45
Col. depth(m)	60	80	80	80	60	80	80	80
Pre. Volume(cc)	7.4	2.4	3.3	0.6	1.5	4.1	5.2	8.2
Biomass(mg/ $\bar{m}$)	34.42	21.42	25.51	14.83	46.64	63.77	88.53	49.52
Copepoda	356	236	656	97	1224	960	1024	464
Amphipoda	1	52	5	0	7	1	1	0
Chaetognatha	45	0	67	24	75	58	22	91
Euphausia Adult	0	0	0	0	0	4	6	8
Larva	4	9	10	3	0	5	6	9

Month	Jun.				Aug.			
Station	03	05	07	09	03	05	07	09
Date	9	9	9	9	17	17	17	17
Time	20:05	16:25	12:00	08:20	13:40	10:05	05:40	02:00
Col. depth(m)	60	80	80	80	60	80	80	80
Pre. Volume(cc)	1.5	2.0	1.9	3.9	5.1	5.5	8.5	11.5
Biomass(mg/ $\bar{m}$)	46.04	25.79	32.24	33.15	127.76	98.33	173.80	227.02
Copepoda	1724	936	844	450	1219	354	1004	1219
Amphipoda	0	0	0	11	9	42	8	6
Chaetognatha	2	6	2	5	269	303	337	388
Euphausia Adult	0	0	0	2	0	0	13	20
Larva	0	20	0	9	35	17	5	0

Month	Oct.				Dec.			
Station	03	05	07	09	03	05	07	09
Date	13	13	13	12	29	29	28	28
Time	08:10	04:35	00:10	20:30	07:35	04:00	23:35	20:00
Col. depth(m)	60	80	80	80	60	80	80	80
Pre. Volume(cc)	5.7	8.1	10.1	6.0	2.5	2.1	4.7	2.0
Biomass(mg/ $\bar{m}$)	148.57	157.72	179.51	118.71	51.60	42.19	54.81	28.50
Copepoda	174	329	464	382	147	416	249	118
Amphipoda	5	21	106	119	0	0	0	2
Chaetognatha	174	329	464	382	74	139	187	113
Euphausia Adult	11	12	0	0	2	0	0	2
Larva	0	25	10	9	7	4	3	0

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1983 년 12 월 10 일 발 행

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